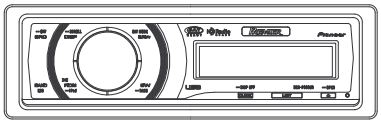
Pioneer sound.vision.soul

Service Manual



DEH-P600UB/XN/UC

ORDER NO.
CRT4090

CD RECEIVER

DEH-P600UB/XN/UC
DEH-P6000UB/XN/UC
DEH-P6050UB/XN/ES
DEH-P6050UB/XN/ES1

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3240	CRT4050	S10.5COMP2-iPod/USB	CD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly

For details, refer to "Important Check Points for Good Servicing".

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ⓒ**PIONEER CORPORATION 2007**

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SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.
Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty.
If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

● **Safety Precautions for those who Service this Unit.**

- **When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.**

Caution:

1. **During repair or tests, minimum distance of 13 cm from the focus lens must be kept.**
2. **During repair or tests, do not view laser beam for 10 seconds or longer.**

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replaced only with the same or equivalent type recommended by the manufacture.
Discord used batteries according to the manufacture's instructions.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

CONTENTS

SAFETY INFORMATION 2
1. SERVICE PRECAUTIONS 5
1.1 SERVICE PRECAUTIONS 5
1.2 NOTES ON SOLDERING 5
2. SPECIFICATIONS 6
2.1 SPECIFICATIONS 6
2.2 DISC/CONTENT FORMAT 8
2.3 PANEL FACILITIES 9
2.4 CONNECTION DIAGRAM 13
3. BASIC ITEMS FOR SERVICE 15
3.1 CHECK POINTS AFTER SERVICING 15
3.2 PCB LOCATIONS 16
3.3 JIGS LIST 16
3.4 CLEANING 17
4. BLOCK BIAGRAM 18
5. DIAGNOSIS 21
5.1 OPERATIONAL FLOWCHART 21
5.2 ERROR CODE LIST 22
5.3 CONNECTOR FUNCTION DESCRIPTION 24
6. SERVICE MODE 25
6.1 TEST MODE 25
6.2 DISPLAY TEST MODE 25
6.3 CD TEST MODE 26
7. DISASSEMBLY 27
8. EACH SETTING AND ADJUSTMENT 32
8.1 CD ADJUSTMENT 32
8.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT 33
8.3 PCL OUTPUT CONFIRMATION 35
9. EXPLODED VIEWS AND PARTS LIST 36
9.1 PACKING 36
9.2 EXTERIOR(1) 38
9.3 EXTERIOR(2) 40
9.4 DRIVE UNIT 42
9.5 CD MECHANISM MODULE 44
10. SCHEMATIC DIAGRAM 46
10.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE) 46
10.2 KEYBOARD UNIT 52
10.3 CD MECHANISM MODULE(GUIDE PAGE) 54
10.4 WAVEFORMS 60
11. PCB CONNECTION DIAGRAM 64
11.1 TUNER AMP UNIT 64
11.2 KEYBOARD UNIT 68
11.3 CD CORE UNIT(S10.5COMP2-iPod) 70
11.4 SWITCH UNIT 72
12. ELECTRICAL PARTS LIST 73

1. SERVICE PRECAUTIONS

1.1 SERVICE PRECAUTIONS

1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
2. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
3. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
4. After replacing the pickup unit, be sure to check the grating.
5. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
6. EJECT LOCK MODE for CD mechanism
   In order to enter "EJECT LOCK" mode, reset start while pressing the "DISP" and "BAND/ESC" keys together. Pressing the "DISP" and "BAND/ESC" keys until monitor backlight is turned on.
   In order to exit "EJECT LOCK" mode, follow the same steps to enter this mode.

1.2 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40° C.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373° C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:
- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

2. SPECIFICATIONS
2.1 SPECIFICATIONS

● DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC

General

Power source ..... 14.4 V DC
(10.8 V to 15.1 V allowable)
Grounding system ..... Negative type
Max. current consumption
..... 10.0 A
Backup current ..... 6.0 mA or less

Dimensions (W × H × D):
DIN
Chassis .....178 mm × 50 mm × 165 mm
(7 in. × 2 in. × 6-1/2 in.)
Nose ..... 188 mm × 58 mm × 18 mm
(7-3/8 in.× 2-1/4 in.× 3/4 in.)
D
Chassis ..... 178 mm × 50 mm × 165 mm
(7 in.× 2 in.× 6-1/2 in.)
Nose ..... 170 mm × 45 mm × 18 mm
(6-3/4 in.× 1-3/4 in.× 3/4 in.)
Weight ..... 1.5 kg (3.3 lbs)

Audio

Maximum power output .....50 W × 4
50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)
Continuous power output .. 22 W × 4 (50 Hz to 15 000 Hz, 5 % THD, 4 Ω load, both channels driven)
Load impedance ..... 4 Ω to 8 Ω × 4
4 Ω to 8 Ω × 2 + 2 Ω × 1
Preout max output level ..... 4 V
Equalizer (7-Band Graphic Equalizer):
Frequency..... 50/125/315/800/2k/5k/12.5k Hz
Gain ..... ±12 dB
HPF:
Frequency..... 50/63/80/100/125 Hz
Slope ..... –12 dB/oct
Subwoofer (mono):
Frequency..... 50/63/80/100/125 Hz
Slope ..... –18 dB/oct
Gain ..... +6 dB to –24 dB
Phase ..... Normal/Reverse
Bass boost:
Gain ..... +12 dB to 0 dB

CD player

System ..... Compact disc audio system
Usable discs ..... Compact disc
Signal-to-noise ratio..... 94 dB (1 kHz) (IHF-A network)
Number of channels ..... 2 (stereo)
MP3 decoding format ..... MPEG-1 & 2 Audio Layer 3
WMA decoding format ..... Ver. 7,7.1, 8, 9, 10, 11 (2ch audio)
(Windows Media Player)
AAC decoding format..... MPEG-4 AAC (iTunes ® encoded only) (.m4a)
(Ver. 7.2 and earlier)
WAV signal format ..... Linear PCM & MS ADPCM
(Non-compressed)

USB

Specification ..... USB 2.0 full speed
Supply current ..... 500 mA
Maximum amount of memory
..... 250 GB
File system..... FAT16, FAT32
MP3 decoding format ..... MPEG-1 & 2 Audio Layer 3
WMA decoding format ..... Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio)
(Windows Media Player)
AAC decoding format..... MPEG-4 AAC (iTunes® encoded only) (.m4a)
(Ver. 7.2 and earlier)
WAV signal format ..... Linear PCM & MS ADPCM
(Non-compressed)

FM tuner

Frequency range..... 87.9 MHz to 107.9 MHz
Usable sensitivity..... 8 dBf (0.7 µV / 75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio..... 75 dB (IHF-A network)

AM tuner

Frequency range..... 530 kHz to 1 710 kHz (10 kHz)
Usable sensitivity..... 18 µV (S/N: 20 dB)
Signal-to-noise ratio..... 65 dB (IHF-A network)

CEA2006 Specifications

Power output ..... 14 W RMS × 4 Channels
(4 Ω and ≦ 1 % THD+N)
S/N ratio ..... 91 dBA (reference: 1 W into 4 Ω)

Note

Specifications and the design are subject to modifications without notice due to improvements. ■

● DEH-P6050UB/XN/ES, /ES1

General

Power source ..... 14.4 V DC (12.0 V to 14.4 V allowable)
Grounding system ..... Negative type
Max. current consumption ..... 10.0 A
Backup current ..... 6.0 mA or less

Dimensions (W × H × D):
- DIN
  - Chassis ..... 178 mm × 50 mm × 165 mm
  - Nose ..... 188 mm × 58 mm × 18 mm
- D
  - Chassis ..... 178 mm × 50 mm × 165 mm
  - Nose ..... 170 mm × 45 mm × 18 mm

Weight ..... 1.5 kg

Audio

Maximum power output ..... 50 W × 4
50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)
Continuous power output ..... 22 W × 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both channels driven)
Load impedance ..... 4 Ω to 8 Ω × 4
4 Ω to 8 Ω × 2 + 2 Ω × 1
Preout max output level ..... 4 V
Equalizer (7-Band Graphic Equalizer):
- Frequency ..... 50/125/315/800/2k/5k/12.5k Hz
- Gain ..... ±12 dB

HPF:
- Frequency ..... 50/63/80/100/125 Hz
- Slope ..... –12 dB / oct

Subwoofer (mono):
- Frequency ..... 50/63/80/100/125 Hz
- Slope ..... –18 dB / oct
- Gain ..... –24 dB + 6 dB to
- Phase ..... Normal/Reverse

Bass boost:
- Gain ..... +12 dB to 0 dB

CD player

System ..... Compact disc audio system
Usable discs ..... Compact disc
Signal-to-noise ratio ..... 94 dB (1 kHz) (IEC-A network)
Number of channels ..... 2 (stereo)
MP3 decoding format ..... MPEG-1 & 2 Audio Layer 3
WMA decoding format ..... Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio)
(Windows Media Player)
AAC decoding format ..... MPEG-4 AAC (iTunes® encoded only) (.m4a)
(Ver. 7.2 and earlier)
WAV signal format ..... Linear PCM & MS ADPCM (Non-compressed)

USB

Specification ..... USB 2.0 full speed
Supply current ..... 500 mA
Maximum amount of memory ..... 250 GB
File system FAT16, FAT32
MP3 decoding format ..... MPEG-1 & 2 Audio Layer 3
WMA decoding format ..... Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio)
(Windows Media Player)
AAC decoding format ..... MPEG-4 AAC (iTunes® encoded only) (.m4a)
(Ver. 7.2 and earlier)
WAV signal format ..... Linear PCM & MS ADPCM (Non-compressed)

FM tuner

Frequency range ..... 87.5 MHz to 108.0 MHz
Usable sensitivity ..... 8 dBf (0.7 µV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio ..... 75 dB (IEC-A network)

AM tuner

Frequency range ..... 531 kHz to 1 602 kHz (9 kHz)
530 kHz to 1 640 kHz (10 kHz)
Usable sensitivity ..... 18 µV (S/N: 20 dB)
Signal-to-noise ratio ..... 65 dB (IEC-A network)

Infrared remote control

Wavelength ..... 940 nm ± 50 nm
Output ..... typ; 12 mw/sr per Infrared LED

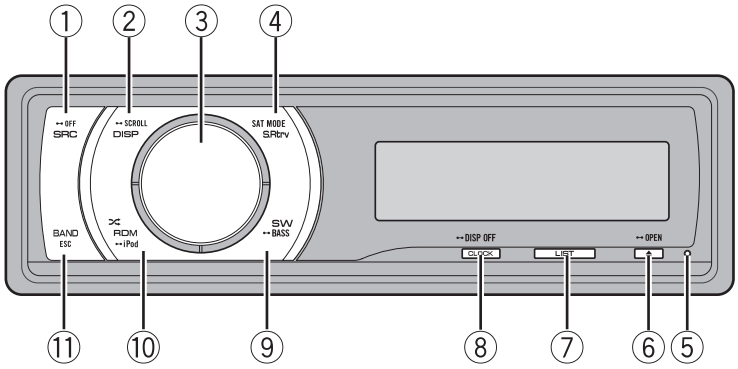
Note

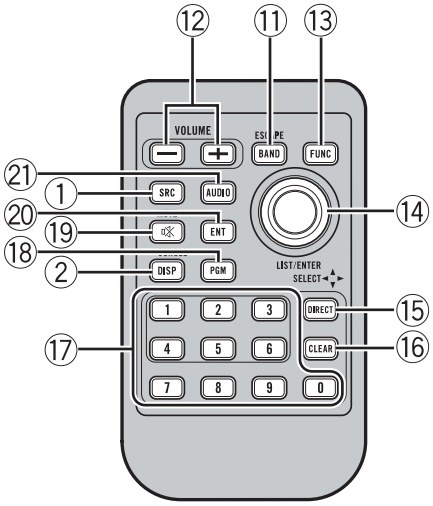
Specifications and the design are subject to modifications without notice due to improvements. ■

2.2 DISC/CONTENT FORMAT

2.3 PANEL FACILITIES

● DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC





What ’s What

Head unit

① SRC/OFF button
This unit is turned on by selecting a source.
Press to cycle through all the available sources.

② DISP/SCROLL button
Press to select different displays.
Press and hold to scroll the text information.

③ MULTI-CONTROL
Move to perform manual seek tuning, fast forward, reverse and track search controls.
Also used for controlling functions.
Turn to increase or decrease the volume.

④ S.Rtrv/SAT MODE button
Press to switch Sound Retriever settings.
When XM tuner or SIRIUS tuner is selected as the source, press to change the channel select mode.
When SIRIUS tuner is selected as the source, press and hold to perform the Instant Replay mode.

⑤ RESET button
Press to reset the microprocessor.

⑥ EJECT/OPEN button
Press to eject a CD from your built-in CD player.
Press and hold to open or close the front panel.

⑦ LIST button
Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

⑧ CLOCK/DISP OFF button
Press to change to the clock display.
Press and hold to turn the display indication and button illumination off or on.

⑨ SW/BASS button
Press to switch to subwoofer setting menu.
When operating subwoofer menu, press to switch setting.
Press and hold to switch to bass boost menu.

⑩ RDM/⤮/iPod button
Press to turn random function on or off while using CD or USB.

While using iPod, press this button to shuffle all tracks.
Press and hold to switch the control mode while using an iPod connected USB connector of this unit.
If using the iPod with an interface adapter (CD-IB100N), press to switch the shuffle function.

⑪ BAND/ESC button
Press to select among three FM bands and one AM band.
Press to return to the ordinary display when operating menu.

Remote control

Operation is the same as when using the buttons on the head unit.

⑫ VOLUME buttons
Press to increase or decrease the volume.

⑬ FUNCTION button
Press to select functions.

⑭ Thumb pad
Move to perform manual seek tuning, fast forward, reverse and track search controls.
Also used for controlling functions.
Functions are the same as MULTI-CONTROL except for volume control.
Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

⑮ DIRECT button
Press to directly select the desired track.

⑯ CLEAR button
Press to cancel the input number when 0 to 9 are used.

⑰ 0 to 9 buttons
Press to directly select the desired track, preset tuning or disc. Buttons 1 to 6 can operate the preset tuning for the tuner or disc number search for the multi-CD player.

⑱ PGM button
Press to operate the preprogrammed functions for each source.

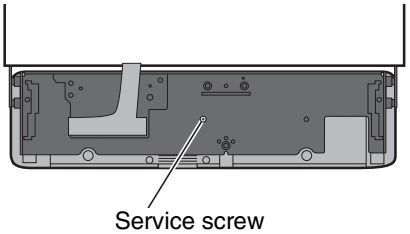
⑲ MUTE button
Press to turn off the sound. To turn on the sound, press again.

⑳ ENT button
Press to change to the entertainment display.

㉑ AUDIO button
Press to select various sound quality controls. ■

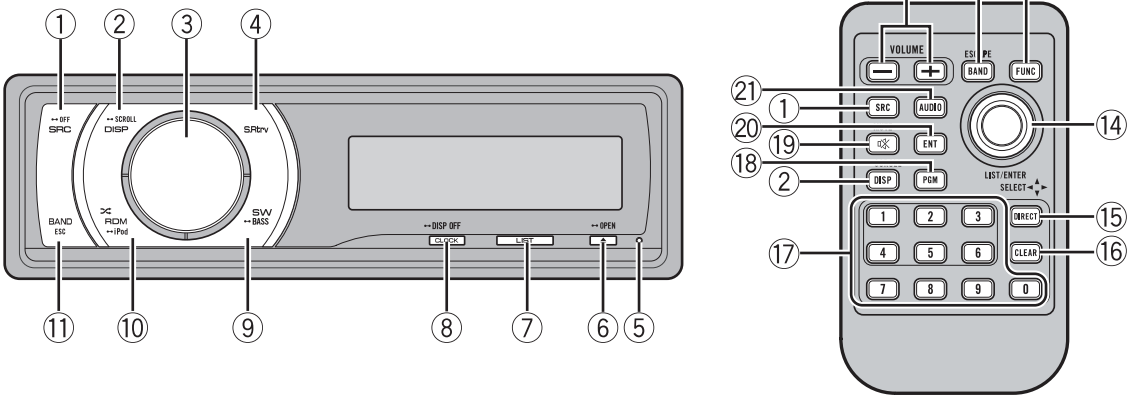
Fastening the front panel

If you do not plan to detach the front panel, the front panel can be fastened with supplied screw.



Service screw
JPZ20P060FTB

● DEH-P6050UB/XN/ES, /ES1



What ’s What

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① SRC/OFF button
This unit is turned on by selecting a source.
Press to cycle through all the available sources.

② DISP/SCROLL button
Press to select different displays.
Press and hold to scroll the text information.

③ MULTI-CONTROL
Move to perform manual seek tuning, fast forward, reverse and track search controls.
Also used for controlling functions.
Turn to increase or decrease the volume.

④ S.Rtrv button
Press to switch Sound Retriever settings.

⑤ RESET button
Press to reset the microprocessor.

⑥ EJECT/OPEN button
Press to eject a CD from your built-in CD player.
Press and hold to open or close the front panel.

⑦ LIST button
Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

⑧ CLOCK/DISP OFF button
Press to change to the clock display.
Press and hold to turn the display indication and button illumination off or on.

⑨ SW/BASS button
Press to switch to subwoofer setting menu.
When operating subwoofer menu, press to switch setting.
Press and hold to switch to bass boost menu.

⑩ RDM/⤮/iPod button
Press to turn random function on or off while using CD or USB.
While using iPod, press this button to shuffle all tracks.
Press and hold to switch the control mode while using an iPod connected USB connector of this unit.
If using the iPod with an interface adapter (CD-IB100N), press to switch the shuffle function.

⑪ BAND/ESC button
Press to select among three FM bands and one AM band.
Press to return to the ordinary display when operating menu.

Remote control

Operation is the same as when using the buttons on the head unit.

⑫ VOLUME buttons
Press to increase or decrease the volume.

⑬ FUNCTION button
Press to select functions.

⑭ Thumb pad
Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions. Functions are the same as MULTI-CONTROL except for volume control.
Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

⑮ DIRECT button
Press to directly select the desired track.

⑯ CLEAR button
Press to cancel the input number when 0 to 9 are used.

⑰ 0 to 9 buttons
Press to directly select the desired track, preset tuning or disc. Buttons 1 to 6 can operate the preset tuning for the tuner or disc number search for the multi-CD player.

⑱ PGM button
Press to operate the preprogrammed functions for each source.

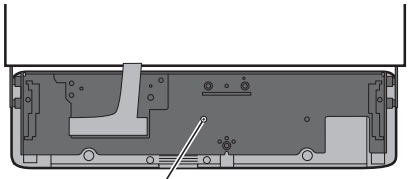
⑲ MUTE button
Press to turn off the sound. To turn on the sound, press again.

⑳ ENT button
Press to change to the entertainment display.

㉑ AUDIO button
Press to select various sound quality controls. ■

Fastening the front panel

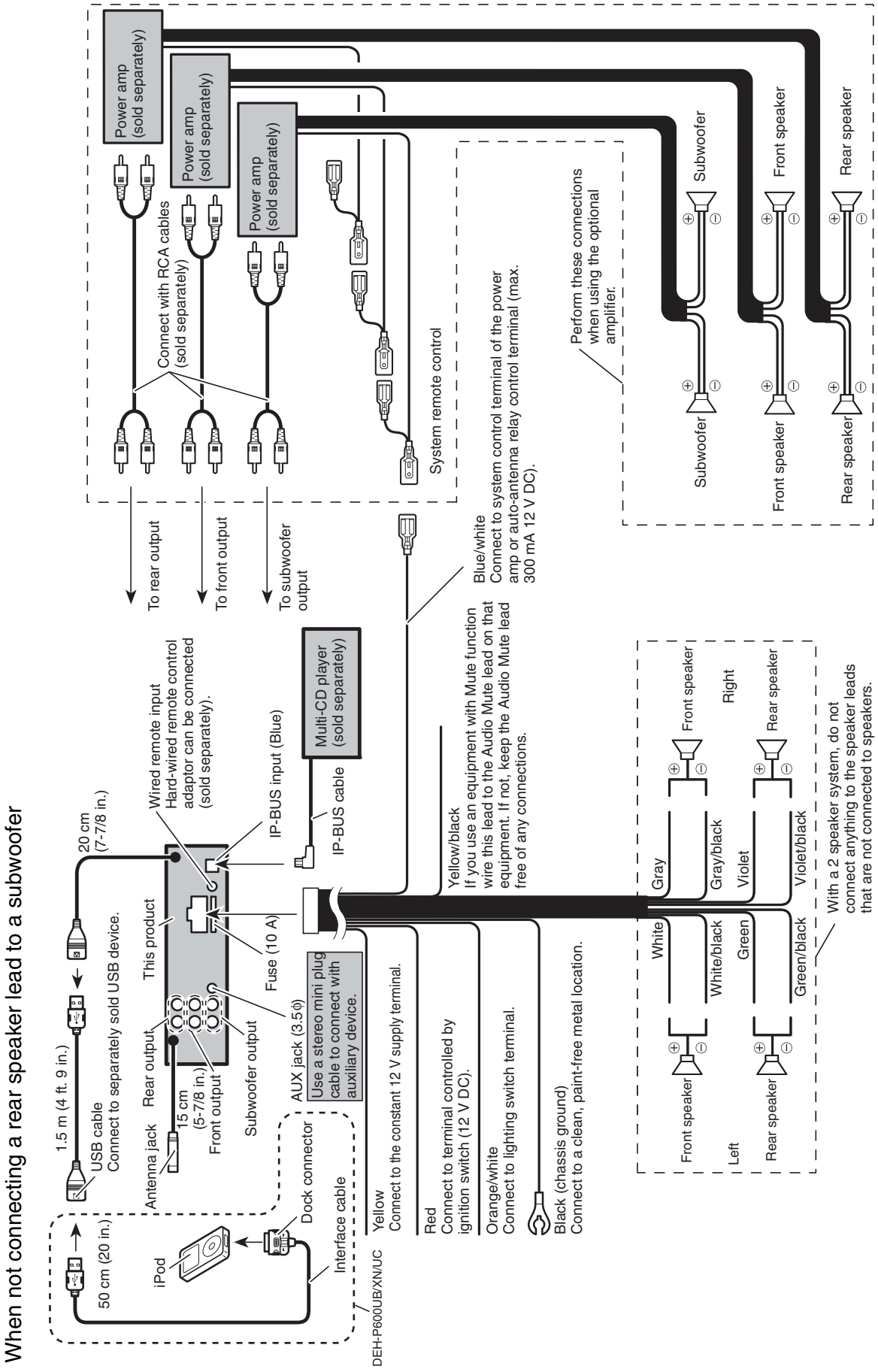
If you do not plan to detach the front panel, the front panel can be fastened with supplied screw.



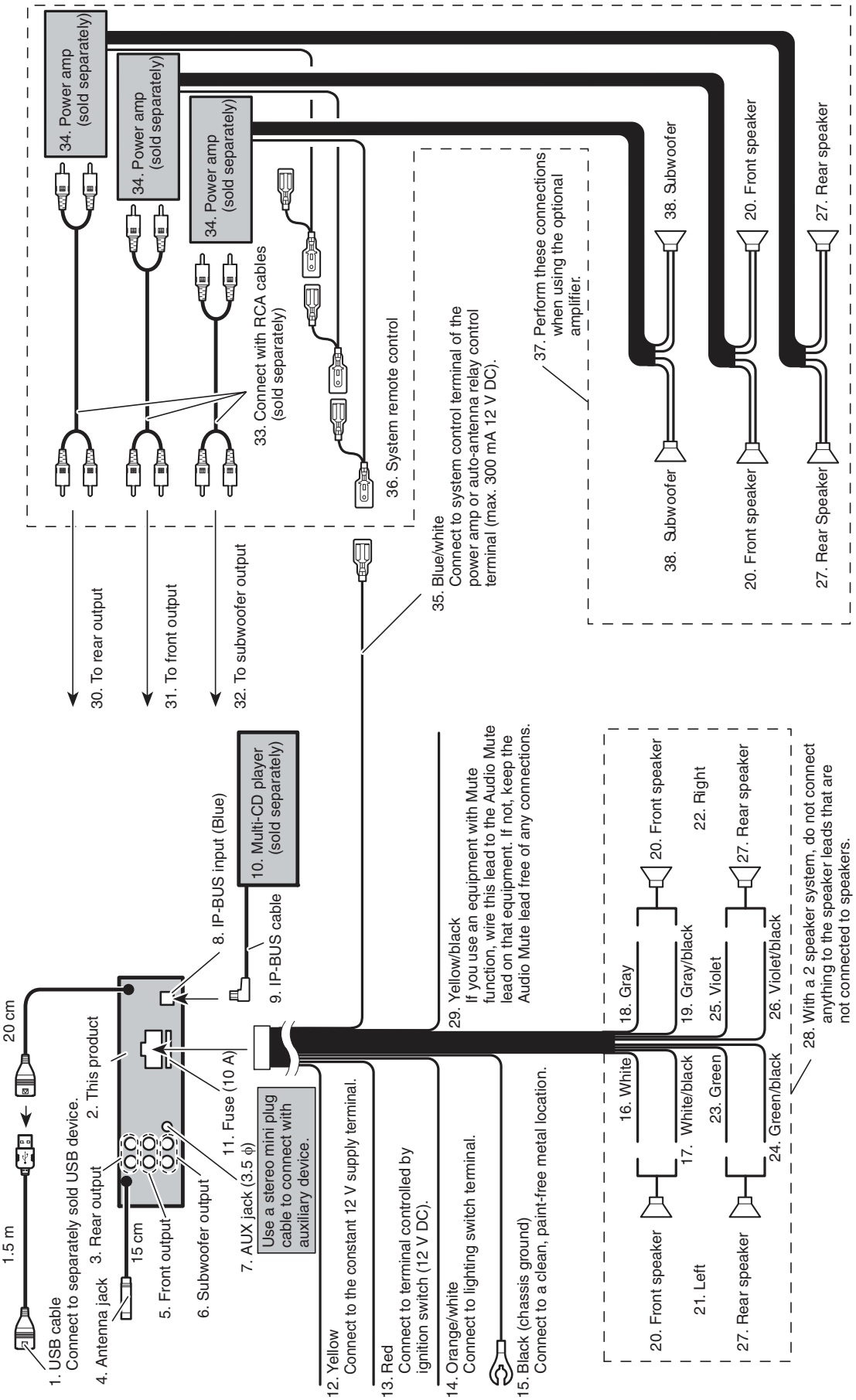
Service screw
XXX7019

2.4 CONNECTION DIAGRAM

● DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC


Power amp (sold separately)
Power amp (sold separately)
Power amp (sold separately)
Connect with RCA cables (sold separately)
System remote control
Perform these connections when using the optional amplifier.
Subwoofer
Front speaker
Rear speaker
To rear output
To front output
To subwoofer output
Blue/white
Connect to system control terminal of the power amp or auto-antenna relay control terminal (max. 300 mA 12 V DC).
Multi-CD player (sold separately)
IP-BUS input (Blue)
IP-BUS cable
Wired remote input
Hard-wired remote control adaptor can be connected (sold separately).
Yellow/black
If you use an equipment with Mute function wire this lead to the Audio Mute lead on that equipment. If not, keep the Audio Mute lead free of any connections.
Gray
Gray/black
Violet
Violet/black
White
White/black
Green
Green/black
Right
Left
With a 2 speaker system, do not connect anything to the speaker leads that are not connected to speakers.
20 cm (7-7/8 in.)
This product
Fuse (10 A)
Use a stereo mini plug cable to connect with auxiliary device.
AUX jack (3.5 ϕ)
Yellow
Connect to the constant 12 V supply terminal.
Red
Connect to terminal controlled by ignition switch (12 V DC).
Orange/white
Connect to lighting switch terminal.
Black (chassis ground)
Connect to a clean, paint-free metal location.
1.5 m (4 ft. 9 in.)
USB cable
Connect to separately sold USB device.
Antenna jack
Rear output
15 cm (5-7/8 in.)
Front output
Subwoofer output
Dock connector
Interface cable
50 cm (20 in.)
iPod
DEH-P600UB/XN/UC
When not connecting a rear speaker lead to a subwoofer

● DEH-P6050UB/XN/ES, /ES1


34. Power amp (sold separately)
34. Power amp (sold separately)
34. Power amp (sold separately)
33. Connect with RCA cables (sold separately)
36. System remote control
37. Perform these connections when using the optional amplifier.
35. Blue/white
Connect to system control terminal of the power amp or auto-antenna relay control terminal (max. 300 mA 12 V DC).
38. Subwoofer
20. Front speaker
27. Rear speaker
38. Subwoofer
20. Front speaker
27. Rear Speaker
30. To rear output
31. To front output
32. To subwoofer output
8. IP-BUS input (Blue)
10. Multi-CD player (sold separately)
9. IP-BUS cable
20 cm
1.5 m
1. USB cable
Connect to separately sold USB device.
2. This product
3. Rear output
4. Antenna jack
15 cm
5. Front output
6. Subwoofer output
7. AUX jack (3.5 ϕ)
Use a stereo mini plug cable to connect with auxiliary device.
11. Fuse (10 A)
12. Yellow
Connect to the constant 12 V supply terminal.
13. Red
Connect to terminal controlled by ignition switch (12 V DC).
14. Orange/white
Connect to lighting switch terminal.
15. Black (chassis ground)
Connect to a clean, paint-free metal location.
29. Yellow/black
If you use an equipment with Mute function, wire this lead to the Audio Mute lead on that equipment. If not, keep the Audio Mute lead free of any connections.
18. Gray
19. Gray/black
25. Violet
26. Violet/black
16. White
17. White/black
23. Green
24. Green/black
20. Front speaker
22. Right
27. Rear speaker
20. Front speaker
21. Left
27. Rear speaker
28. With a 2 speaker system, do not connect anything to the speaker leads that are not connected to speakers.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

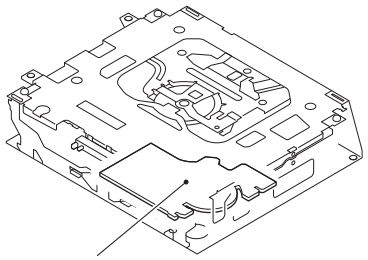
To keep the product quality after servicing, please confirm following check points.

No.		Procedures	Item to be confirmed
1		Confirm whether the customer complain has been solved. If the customer complain occurs with the specific media, use it for the operation check.	The customer complain must not be reappeared. Display, audio and operations must be normal.
2	CD	Play back a CD. (Track search)	No malfunction on display, audio and operation. Display, audio and operations must be normal.
3	FM/AM tuner	Check FM/AM tuner action. (Seek, Preset) Switch band to check both FM and AM.	Display, audio and operations must be normal.
4		Check whether no disc is inside the product.	The media used for the operating check must be ejected.
5		Appearance check	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding audio:

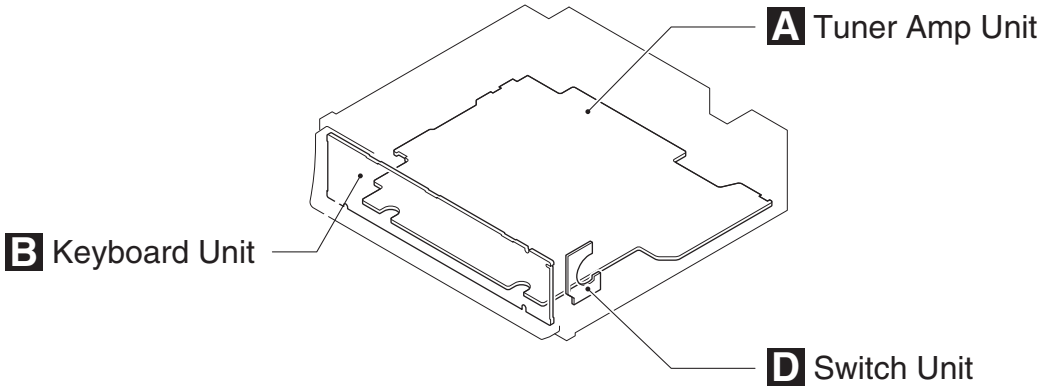
Item to be checked regarding audio
Distortion
Noise
Volume too low
Volume too high
Volume fluctuating
Sound interrupted

3.2 PCB LOCATIONS



C CD Core Unit
(S10.5COMP2-iPod)

Unit Number : CWN3149(P600UB)
Unit Number : CWN3148(P6000UB)
Unit Number : CWN3150(P6050UB)
Unit Name : Tuner Amp Unit
Unit Number : (P600UB)
Unit Number : (P6000UB)
Unit Number : (P6050UB)
Unit Name : Keyboard Unit
Unit Number : CWX3526
Unit Name : CD Core Unit
(S10.5COMP2-iPod)
Unit Number : CWS1389
Unit Name : Switch Unit



3.3 JIGS LIST

● **Jigs List**

Name	Jig No.	Remarks
Test Disc	TCD-782	Checking the grating
L.P.F.		Checking the grating (Two pieces)

● **Grease List**

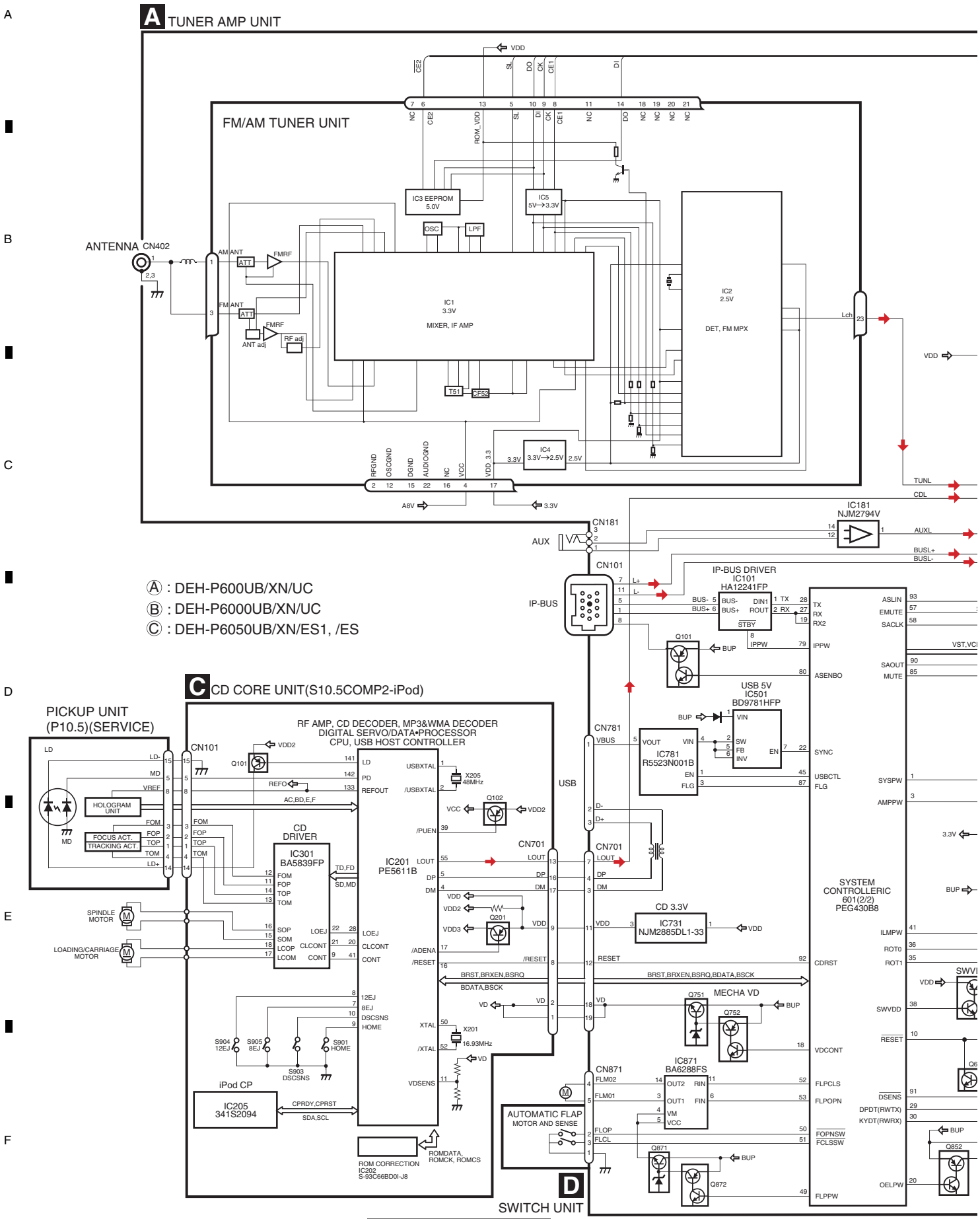
Name	Grease No.	Remarks
Grease	GEM1024	Drive Unit , CD Mechanism Module
Grease	GEM1041	Drive Unit
Grease	GEM1045	CD Mechanism Module
Grease	GEM1069	Drive Unit

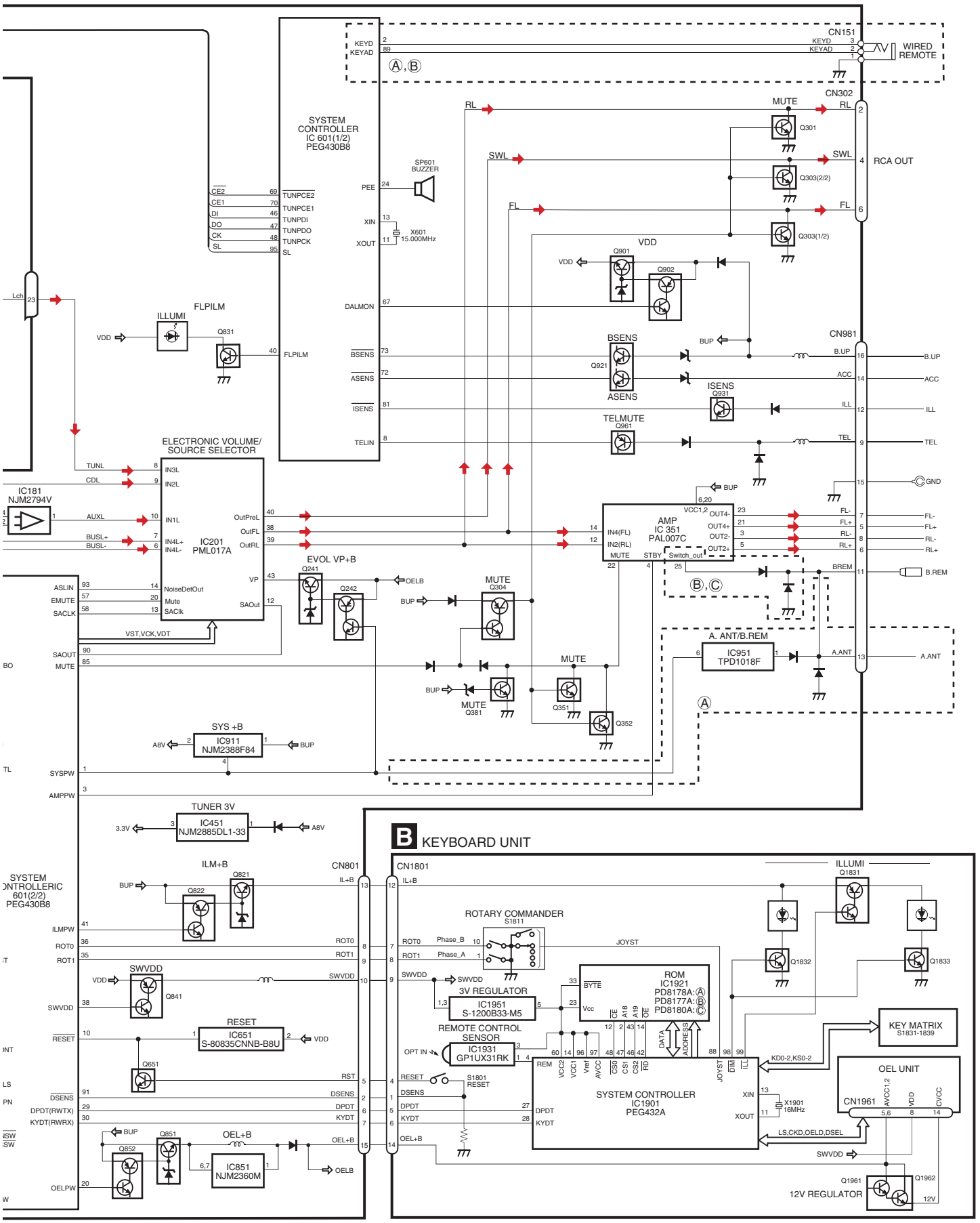
3.4 CLEANING

Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

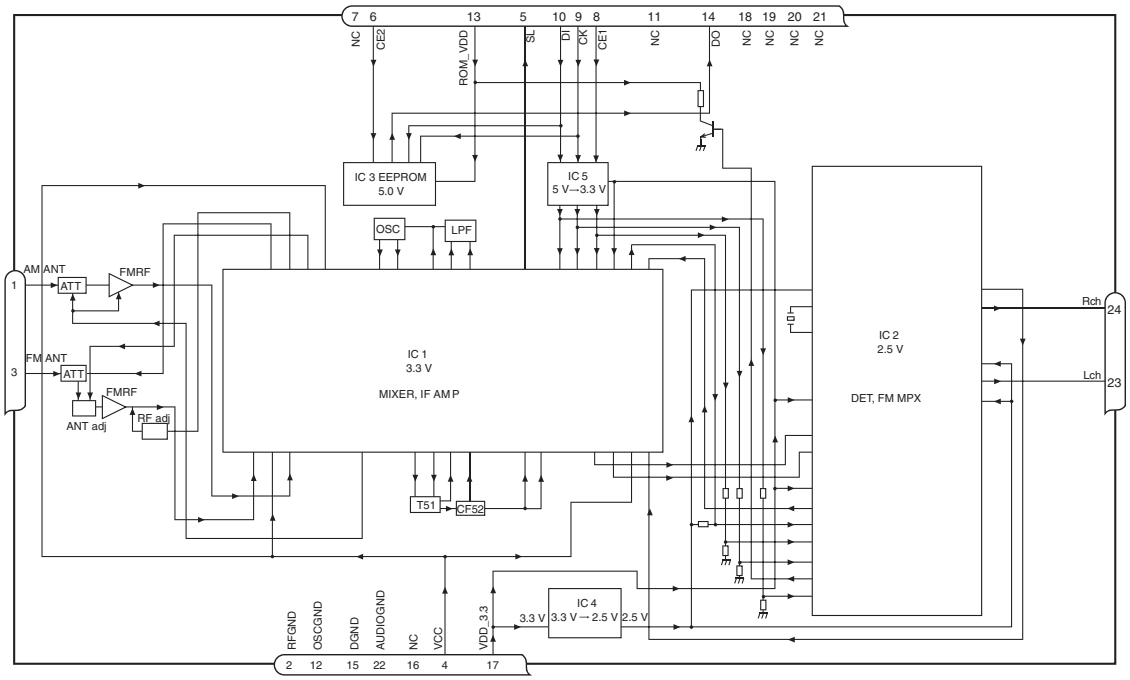
Portions to be cleaned	Cleaning tools
CD pickup lenses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

4. BLOCK BIAGRAM




CN151
KEYD
KEYAD
WIRED REMOTE
SYSTEM CONTROLLER IC 601(1/2) PEG430B8
CN302
RL
MUTE
Q301
SWL
Q303(2/2)
RCA OUT
FL
Q303(1/2)
SP601 BUZZER
X601 15.000MHz
VDD
Q901
Q902
FLPILM
ILLUMI
Q831
BSENS
ASENS
ISENS
TELIN
Q921
Q931
Q961
TELMUTE
BUP
CN981
B.UP
ACC
ILL
TEL
GND
FL-
FL+
RL-
RL+
B.REM
ELECTRONIC VOLUME/ SOURCE SELECTOR
IC201 PML017A
IC181 NJM2794V
AMP IC 351 PAL007C
EVOL VP+B
Q241
Q242
MUTE
Q304
Q381
Q351
Q352
A. ANT/B.REM
IC951 TPD1018F
A.ANT
SYS +B
IC911 NJM2388F84
TUNER 3V
IC451 NJM2885DL1-33
B KEYBOARD UNIT
CN1801
CN801
ILM+B
Q821
Q822
SWVDD
Q841
RESET
IC651 S-80835CNNB-B8U
Q651
ROTARY COMMANDER
S1811
3V REGULATOR
IC1951 S-1200B33-M5
REMOTE CONTROL SENSOR
IC1931 GP1UX31RK
S1801 RESET
ROM IC1921 PD8178A:A PD8177A:B PD8180A:C
SYSTEM CONTROLLER IC1901 PEG432A
X1901 16MHz
ILLUMI
Q1831
Q1832
Q1833
KEY MATRIX S1831-1839
OEL UNIT
CN1961
Q851
Q852
OEL+B
IC851 NJM2360M
12V REGULATOR
Q1961
Q1962

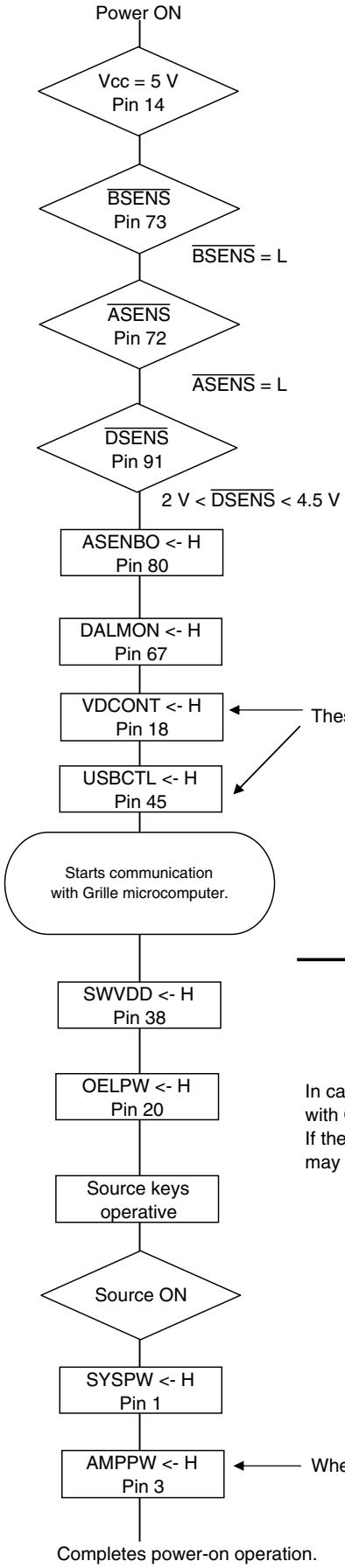
● FM/AM Tuner Unit



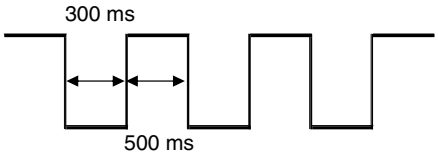
No.	Symbol	I/O	Explain	
1	AMANT	I	AM antenna input	AM antenna input high impedance AMANT pin is connected with an all antenna by way of 4.7 µH. (LAU type inductor) A series circuit including an inductor and a resistor is connected with RF ground for the countermeasure against the hum of power transmission line.
2	RFGND		RF ground	Ground of antenna block
3	FMANT	I	FM antenna input	Input of FM antenna 75Ω Surge absorber (DSP-201M-S00B) is necessary.
4	VCC		power supply	The power supply for analog block. D.C 8.4 V ± 0.3 V
5	SL	O	signal level	Output of FM/AM signals level
6	CE2	I	chip enable-2	Chip enable for EEPROM ”Low” active input
7	NC		non connection	Not used
8	CE1	I	chip enable-1	Chip enable for AF•RF ”High” active
9	CK	I	clock	Clock input
10	DI	I	data in	Data input
11	NC		non connection	Not used
12	OSCGND		osc ground	Ground of oscillator block
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of micro computer.
14	DO	O	data out	Data output
15	DGND		digital ground	Ground of digital block
16	NC		non connection	Not used
17	VDD_3.3		power supply	The power supply for digital block. 3.3 V ± 0.2 V
18	NC		non connection	Not used
19	NC		non connection	Not used
20	NC		non connection	Not used
21	NC		non connection	Not used
22	AUDIOGND		audio ground	Ground of audio block
23	L ch	O	L channel output	FM stereo “L-ch” signal output or AM audio output
24	R ch	O	R channel output	FM stereo “R-ch” signal output or AM audio output

5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART



These terminals cause trouble that CDS, USB, and the iPod source do not stand up.



In case of the above signal, the communication
with Grille microcomputer may fai
If the time interval is not 300 / 500 msec, the oscillator
may be defective.

Whenever an external amplifier is connected, AMPPW becomes Low.

5.2 ERROR CODE LIST

● Error Messages

If a CD is not operative or stopped during operation due to an error, the error mode is turned on and cause(s) of the error is indicated with a corresponding number. This arrangement is intended at reducing nonsense calls from the users and also for facilitating trouble analysis and repair work in servicing.

(1) Basic Indication Method

1) When SERRORM is selected for the CSMOD (CD mode area for the system), error codes are written to DMIN (minutes display area) and DSEC (seconds display area). The same data is written to DMIN and DSEC. DTNO remains in blank as before.

2) Head unit display examples

Depending on display capability of LCD used, display will vary as shown below. xx contains the error number.

8-digit display	6-digit display	4-digit display
ERROR-xx	ERR-xx	E-xx

(2) Error Code List

Code	Class	Displayed error code	Description of the code and potential cause(s)
10	Electricity	Carriage Home NG SERVO LSI Communication Error	CRG can't be moved to inner diameter. CRG can't be moved from inner diameter. -> Failure on home switch or CRG move mechanism. Communication error between microcomputer and SERVO LSI.
11	Electricity	Focus Servo NG	Focusing not available. -> Stains on rear side of disc or excessive vibrations on REWRITABLE.
12	Electricity	Spindle Lock NG Subcode NG	Spindle not locked. Sub-code is strange (not readable). -> Failure on spindle, stains or damages on disc, or excessive vibrations. A disc not containing CD-R data is found. Turned over disc are found, though rarely. CD signal error.
17	Electricity	Setup NG	AGC protection doesn't work. Focus can be easily lost. -> Damages or stains on disc, or excessive vibrations on REWRITABLE.
30	Electricity	Search Time Out	Failed to reach target address. -> CRG tracking error or damages on disc.
44	Electricity	ALL Skip	Skip setting for all track. (CD-R/RW)
50	Mechanism	CD On Mech Error	Mechanical error during CD ON. -> Defective loading motor, mechanical lock and mechanical sensor.
A0	System	Power Supply NG	Power (VD) is ground faulted. -> Failure on SW transistor or power supply (failure on connector).

Remarks: Mechanical errors are not displayed (because a CD is turned off in these errors).

Unreadable TOC does not constitute an error. An intended operation continues in this case.

Upper digits of an error code are subdivided as shown below:

1x: Setup relevant errors, 3x: Search relevant errors, Ax: Other errors.

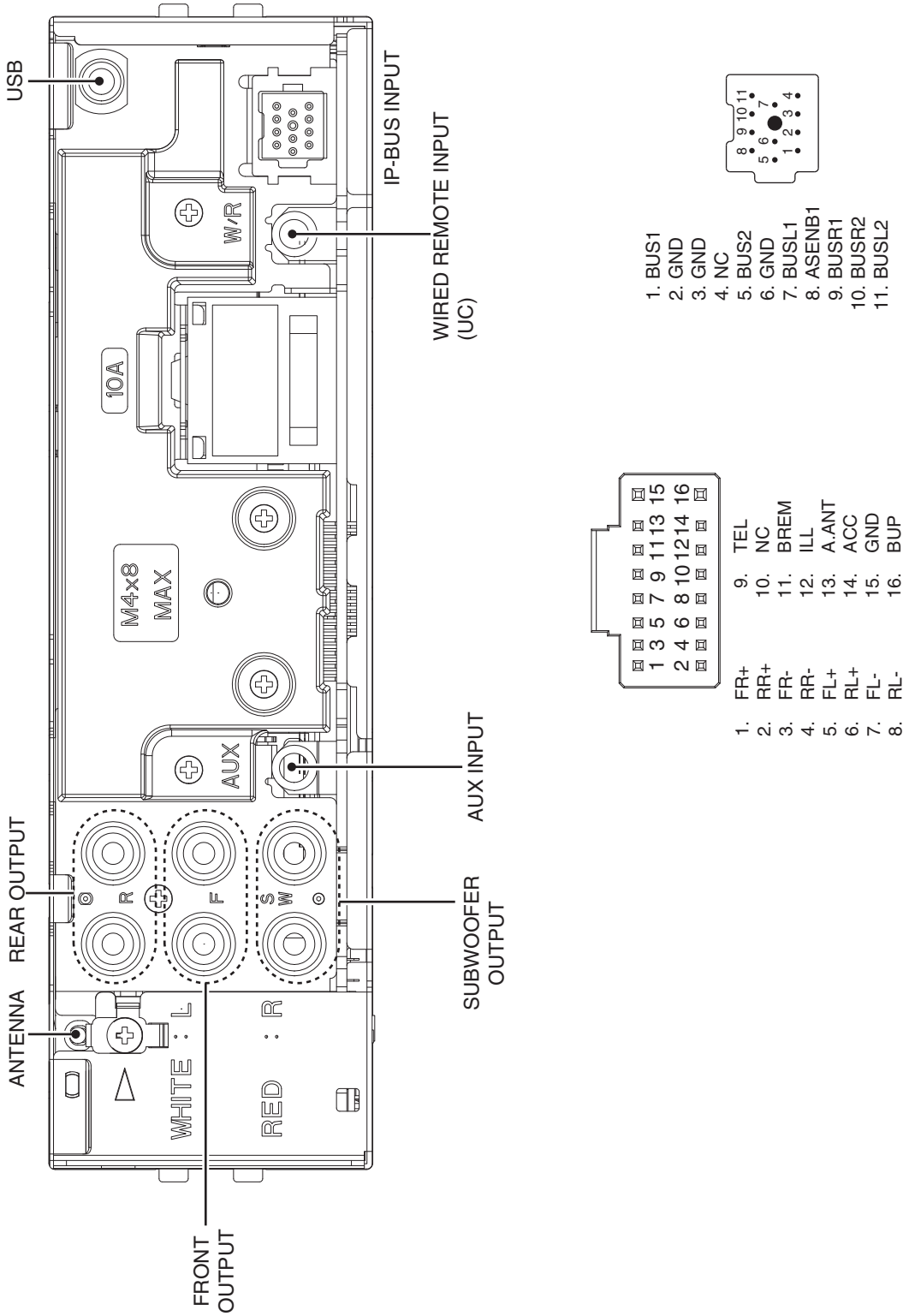
iPod error

Message	Cause	Action
NO SONGS	No songs in the iPod	Transfer the songs to the iPod.
STOP	No songs in the current list	Select a list that contains the songs.
ERROR-19	Communication failure iPod failure	Disconnect the cable from the iPod. Once the iPod main menu is displayed, connect the cable again.
		Reset the iPod.
ERROR-18 N/A USB	Old version of the iPod	Update the iPod version.
	iPod failure	Reset the iPod.
ERROR-16	Old version of the iPod	Update the iPod version.
	iPod failure	Disconnect the cable from the iPod. Once the iPod main menu is displayed, connect the cable again.
		Reset the iPod.
		Turn the ignition switch OFF and ON.
		Malfunction of iPod recognition IC.
CHECK USB	iPod is not charged but operates correctly.	Check if the connection cable for the iPod shorted out. After checking, switch the ignition key OFF and ON, or disconnect the iPod and connect again.

USB error

Message	Cause	Action
NO AUDIO	No songs in the USB device	Transfer the songs to the USB device.
	USB memory with security enabled is connected	Follow the USB memory instructions to disable the security.
TRK SKIPPED	The connected USB device contains WMA files that are protected by DRM	Play an audio file not protected by DRM.
PROTECT	All the files in the USB device are protected by DRM	Transfer the songs not protected by DRM to the USB device.
N/A USB	The connected USB device is not supported by this unit	Connect a USB device that is compliant as a Mass Storage Class.
CHK USB	The USB connector or the USB cable is short-circuited	Confirm the USB connector or the USB cable.
	The connected USB device consumes more than 500 mA (max. allowable current)	Confirm the USB device.
ERROR-19	Communication failure	Turn the ignition switch OFF and ON.
		Disconnect the USB device, and connect it again.
		Change to a different source. Then, return to the USB.
ERROR-23	USB device is not formatted with FAT16 or FAT32	Format the USB device with FAT16 or FAT32.

5.3 CONNECTOR FUNCTION DESCRIPTION



6. SERVICE MODE

6.1 TEST MODE

Double Key Allocation List

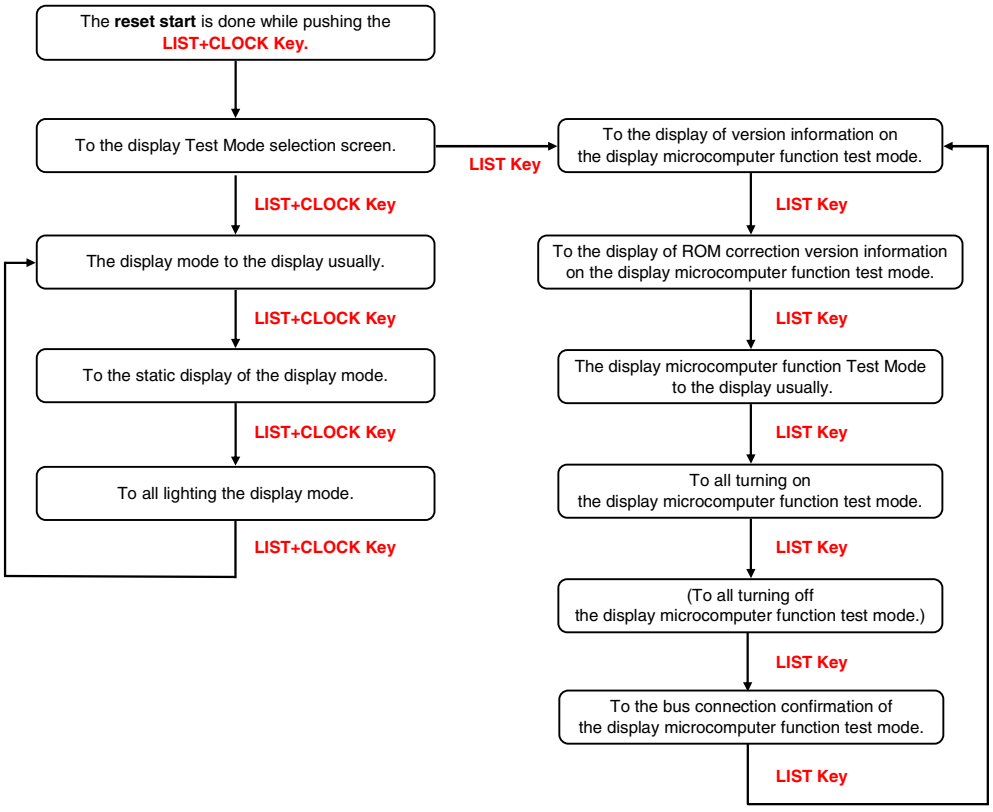
Double Key	Mode Name
S.Rtrv + DISP	CD Test Mode
LIST + CLOCK	Display Test Mode
DISP + BAND/ESC	(Eject Lock)

The mode in ( ) is except test mode.

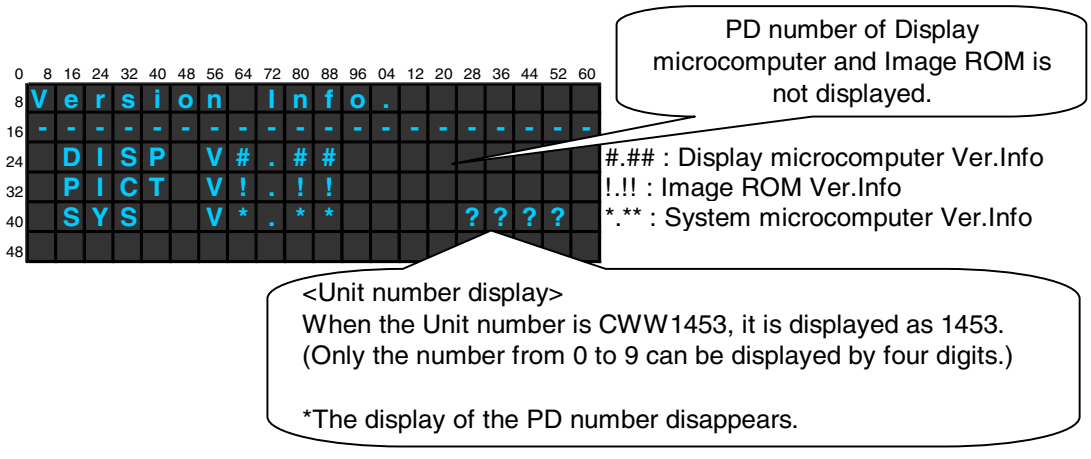
6.2 DISPLAY TEST MODE

Display Test Mode

Restarted pushing reset while pushing the **LIST+CLOCK key** then the screen is changed to the display test mode.

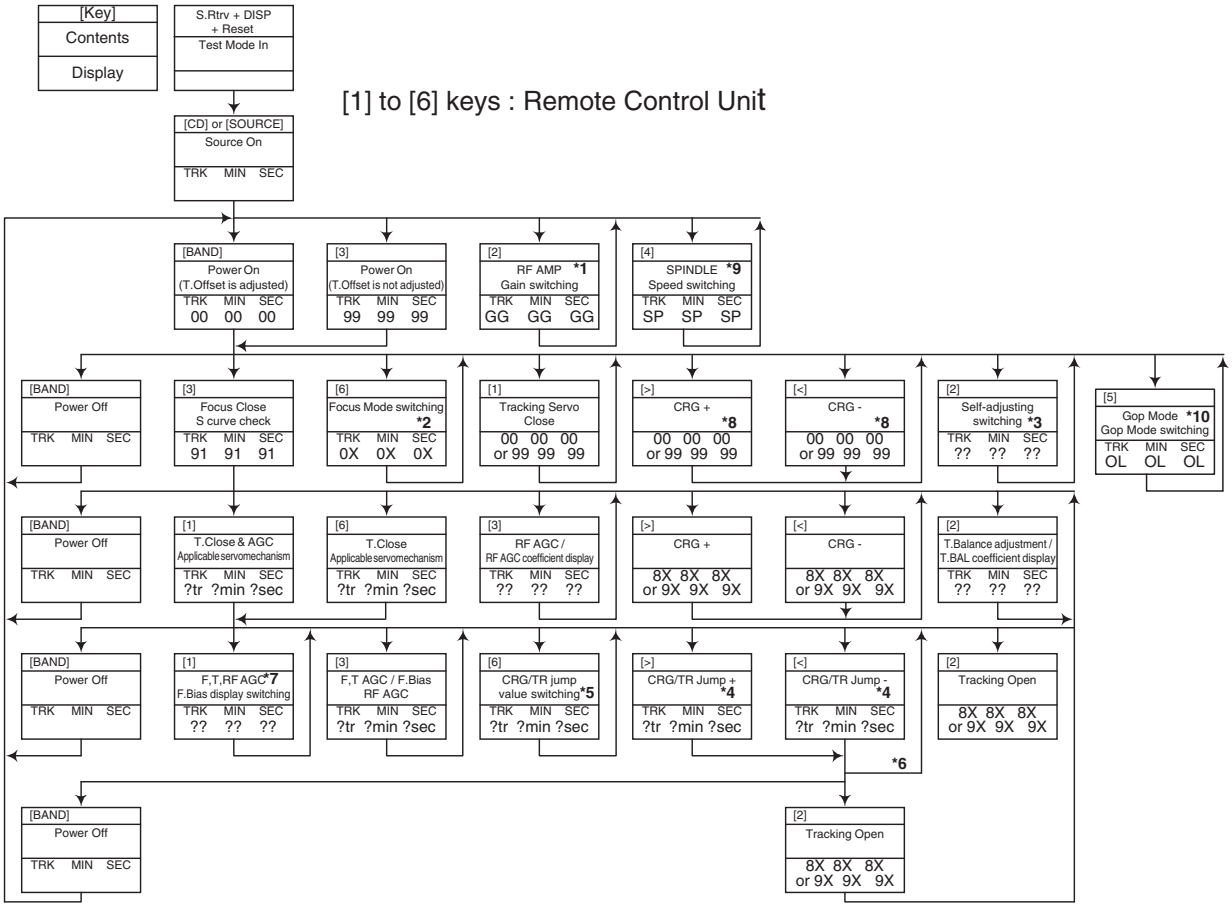

The reset start is done while pushing the LIST+CLOCK Key.
To the display Test Mode selection screen.
LIST Key
To the display of version information on the display microcomputer function test mode.
LIST+CLOCK Key
LIST Key
The display mode to the display usually.
To the display of ROM correction version information on the display microcomputer function test mode.
LIST+CLOCK Key
LIST Key
To the static display of the display mode.
The display microcomputer function Test Mode to the display usually.
LIST+CLOCK Key
LIST Key
To all lighting the display mode.
To all turning on the display microcomputer function test mode.
LIST+CLOCK Key
LIST Key
(To all turning off the display microcomputer function test mode.)
LIST Key
To the bus connection confirmation of the display microcomputer function test mode.
LIST Key

Version Information Display


PD number of Display microcomputer and Image ROM is not displayed.
Version Info.
DISP V#.##
PICT V!.!!
SYS V*.**
#.## : Display microcomputer Ver.Info
!.!! : Image ROM Ver.Info
*.** : System microcomputer Ver.Info
<Unit number display>
When the Unit number is CWW1453, it is displayed as 1453.
(Only the number from 0 to 9 can be displayed by four digits.)
*The display of the PD number disappears.

6.3 CD TEST MODE

● Flow Chart


[Key]
Contents
Display
S.Rtrv + DISP + Reset
Test Mode In
[CD] or [SOURCE]
Source On
TRK MIN SEC
[1] to [6] keys : Remote Control Unit
[BAND] Power On (T.Offset is adjusted) 00 00 00
[3] Power On (T.Offset is not adjusted) 99 99 99
[2] RF AMP *1 Gain switching GG GG GG
[4] SPINDLE *9 Speed switching SP SP SP
[BAND] Power Off
[3] Focus Close S curve check 91 91 91
[6] Focus Mode switching *2 0X 0X 0X
[1] Tracking Servo Close 00 00 00 or 99 99 99
[>] CRG + *8 00 00 00 or 99 99 99
[<] CRG - *8 00 00 00 or 99 99 99
[2] Self-adjusting switching *3 ?? ?? ??
[5] Gop Mode *10 Gop Mode switching OL OL OL
[1] T.Close & AGC Applicable servomechanism ?tr ?min ?sec
[6] T.Close Applicable servomechanism ?tr ?min ?sec
[3] RF AGC / RF AGC coefficient display ?? ?? ??
[>] CRG + 8X 8X 8X or 9X 9X 9X
[<] CRG - 8X 8X 8X or 9X 9X 9X
[2] T.Balance adjustment / T.BAL coefficient display ?? ?? ??
[1] F,T,RF AGC *7 F.Bias display switching ?? ?? ??
[3] F,T AGC / F.Bias RF AGC ?tr ?min ?sec
[6] CRG/TR jump value switching *5 ?tr ?min ?sec
[>] CRG/TR Jump + *4 ?tr ?min ?sec
[<] CRG/TR Jump - *4 ?tr ?min ?sec
[2] Tracking Open 8X 8X 8X or 9X 9X 9X
*6

*1) TYP (TRK MIN SEC) -> + 6 dB ($^{TRK}06^{MIN}06^{SEC}06$) -> + 12 dB ($^{TRK}12^{MIN}12^{SEC}12$)

*2) Focus Close ($^{TRK}00^{MIN}00^{SEC}00$) -> S.Curve ($^{TRK}01^{MIN}01^{SEC}01$) -> F EQ measurement setting ($^{TRK}02^{MIN}02^{SEC}02$)
($^{TRK}99^{MIN}99^{SEC}99$)

*3) F.Offset Display -> RF.Offset -> T.Offset Display -> Switch to the order of the original display

*4) 1TR/4TR/10TR/32TR/100TR

*5) Single -> 4TR -> 10TR -> 32TR -> 100TR -> CRG Move
9x(8x):91(81) 92(82) 93(83) 94(84) 95(85) 96(86)

*6) Only at the time of CRG move, 100TR jump

*7) TRK/MIN/SEC -> F.AGC -> T.AGC Gain -> F Bias -> RF AGC

*8) CRG motor voltage = 2 [V]

*9) TYP (1X) (TRK MIN SEC) -> 2X ($^{TRK}22^{MIN}22^{SEC}22$) -> 1X ($^{TRK}11^{MIN}11^{SEC}11$)

*10) OFF(TYP) (TRK MIN SEC) -> FORCUS ($^{TRK}70^{MIN}70^{SEC}70$) -> TRACKING ($^{TRK}71^{MIN}71^{SEC}71$)

[Key]	Operation Test Mode
[BAND]	Power On/Off
[>]	CRG + / TR Jump + (Direction of the external surface)
[<]	CRG - / TR Jump - (Direction of the internal surface)
[1]	T. CLS & AGC & Applicable servomechanism / AGC,AGC display setting
[2]	RF Gain switching / Offset adjustment display / T.Balance adjustment / T. Open
[3]	F. Close,S Curve / Rough Servo and RF AGC / F,T,RF AGC
[4]	SPDL 1X/2X switching As for the double speed(2x), audio output cannot be supported.
[5]	Error Rate measurement ON : ERR 30 Counts Start BER display data[%]
[6]	F. Mode switching / Tracking Close / CRG•TR Jump Switching

- As for the double speed (2x), audio output cannot be supported
- After the [Eject] key is pressed keys other than the [Eject] key should not be pressed, until disc ejection is complete.
- When the key [2] or [3] is pressed during the Focus Search, the power supply should be immediately turned off (otherwise the lens sticks to Wall, causing the actuator to be damaged).
- In the case of TR jump other than to 100TR, the function shall continue to be processed even if the TR jump key is released. As for the CRG Move and 100TR Jump, the mechanism shall be set to the Tracking Close mode when the key is released.
- When the power is turned on/off the jump mode is reset to the Single TR (91) while the gain of the RFAMP is reset to 0 dB. At the same time all the self-adjusting values shall return to the default setting.

7. DISASSEMBLY

● Removing the Keyboard Unit (Fig.1, 2)

Remove the Knob Unit.(Fig.1)

1 Remove the four screws.(Fig.2)

Remove the Cover
and then remove the Keyboard Unit.

Fig.1

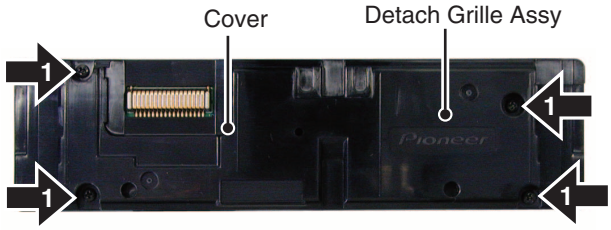


Fig.2

● Removing the Holder, Panel and Case (Fig.3)

Take off the pick of left and right
and then a Holder slide to the arrow course.

Remove the Panel.

Remove the Case.

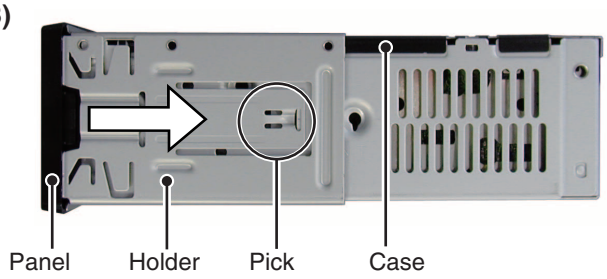


Fig.3

● Removing the CD Mechanism Module (Fig.4)

1 Remove the four screws.

Disconnect the cable
and then remove the CD Mechanism Module.

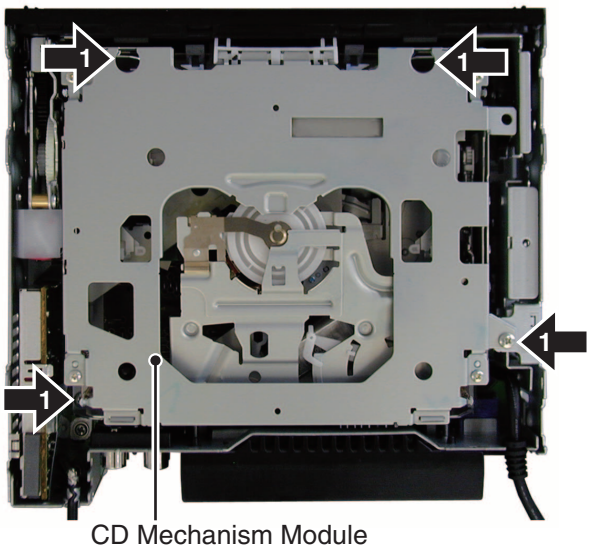


Fig.4

● Removing the Panel Assy(Fig.5, 6, 7)

Disconnect the two cables.(Fig.5)

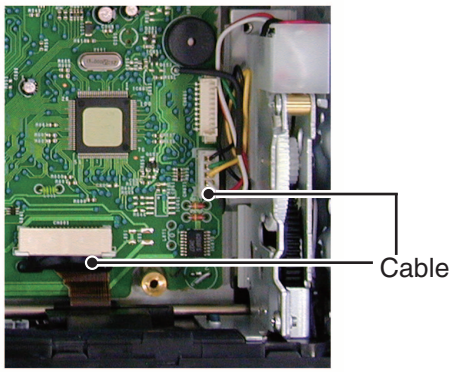


Fig.5

Follw next

The continuance from the page of before.

1 Remove the four screws.(Fig.6)

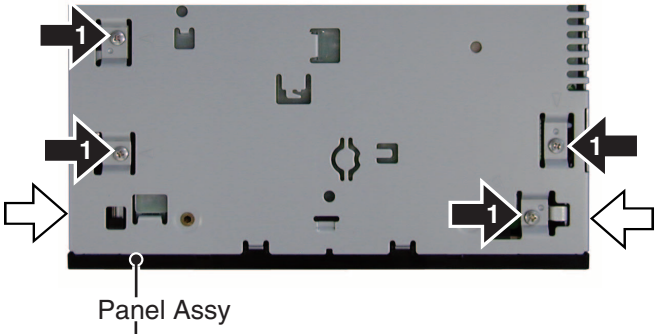


Fig.6

Push the place of the arrows
and then remove Panel Assy.(Fig.6, 7)

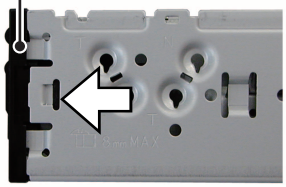


Fig.7

● Removing the Switch Unit(Fig.8, 9)

1 Remove the screw.(Fig.8)

2 Remove the three screws
and then the Holder.(Fig.8)

3 Remove the two screws
and then remove the Switch Unit.(Fig.9)

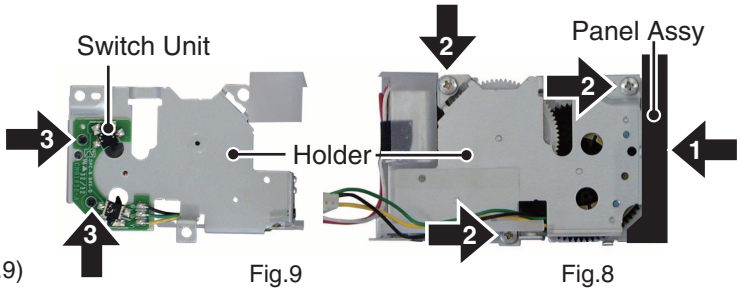


Fig.9 Fig.8

● Removing the Tuner Amp Unit(Fig.10, 11)

1 Remove the screw
and then remove the Holder.(Fig.10)

2 Remove the screw.(Fig.10)

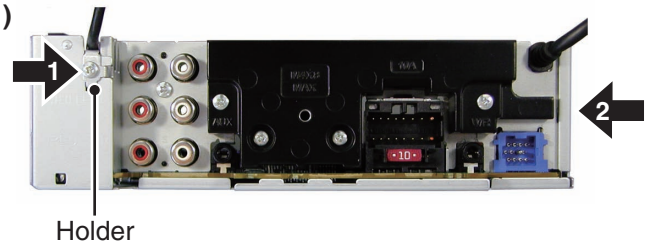


Fig.10

3 Remove the screws.(Fig.11)

4 Remove the screw
and then remove the Holder.(Fig.11)

5 Straighten the tabs at three locations
indicated
and then remove the Tuner Amp Unit.
(Fig.11)

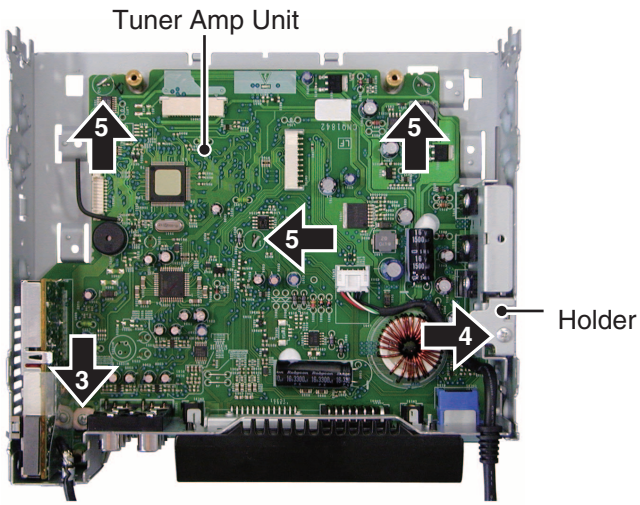
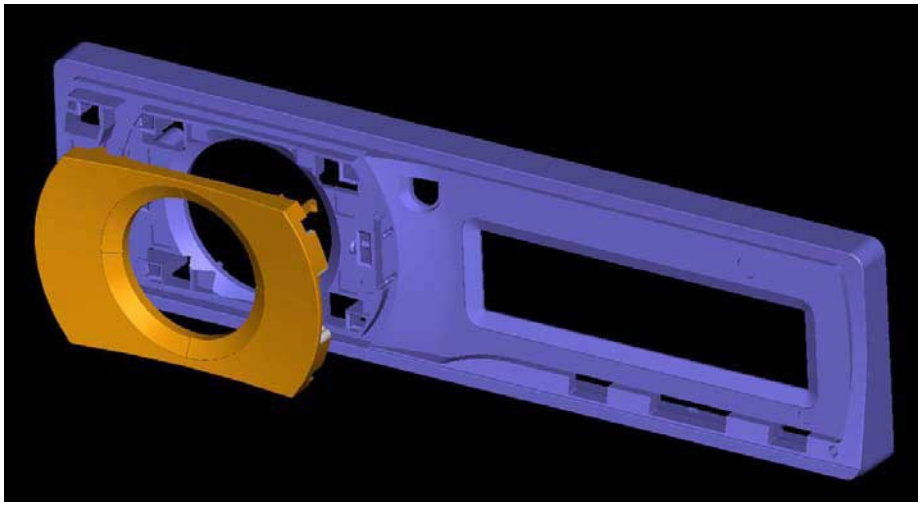
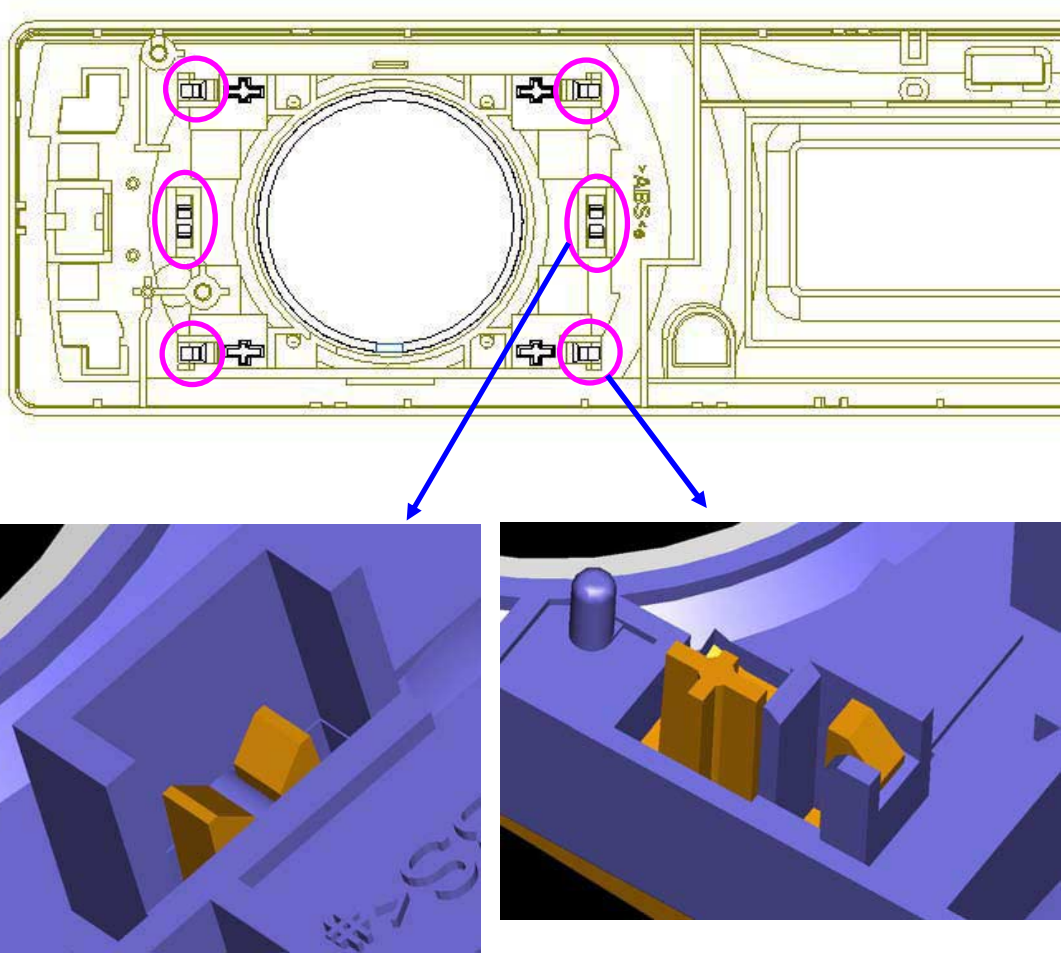


Fig.11

●How from grille to remove plate button.



①There are six hooks to remove.

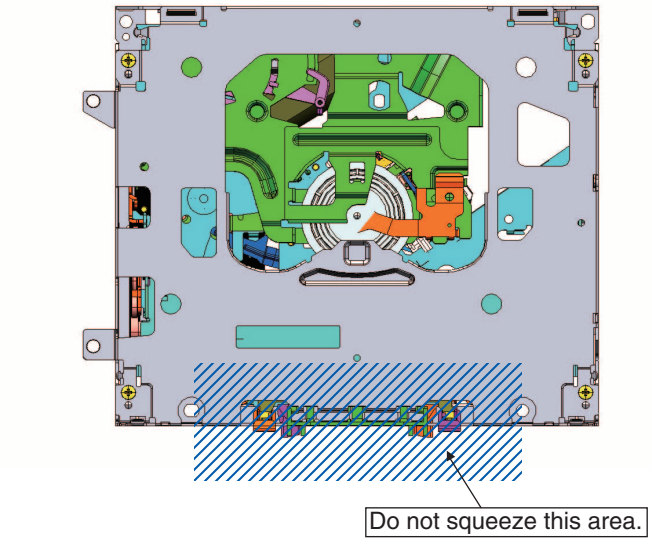


The hook in six places in total is removed by the thin one such as tweezers.

* The hook breaks when forcibly removing.

● How to hold the Mechanism Unit

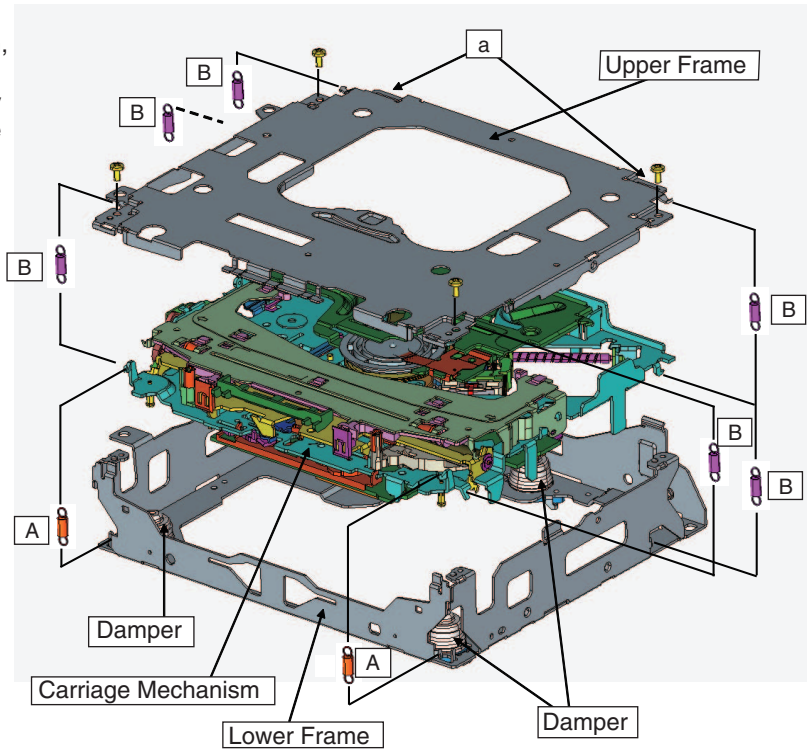
1. Hold the Upper and Lower Frames.
2. Do not hold the front portion of the Upper Frame, because it is not very solid.



● Removing the Upper and Lower Frames

1. With a disc inserted and clamped in the mechanism, remove the two Springs (A), the six Springs (B), and the four Screws.
2. Turn the Upper Frame using the part "a" as a pivot, and remove the Upper Frame.
3. While lifting the Carriage Mechanism, remove it from the three Dampers.

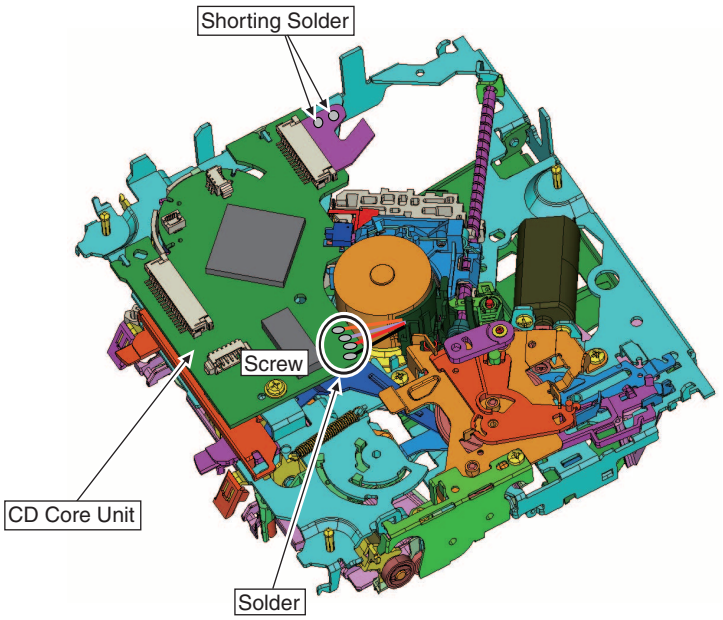
Caution: When assembling, be sure to apply some alcohol to the Dampers and assemble the mechanism in a clamped state.



● How to remove the CD Core Unit

1. Apply Shorting Solder to the flexible cable of the Pickup, and disconnect it from the connector.
2. Unsolder the four leads, and loosen the Screw.
3. Remove the CD Core Unit.

Caution: When assembling the CD Core Unit, assemble it with the SW in a clamped state so as not to damage it.

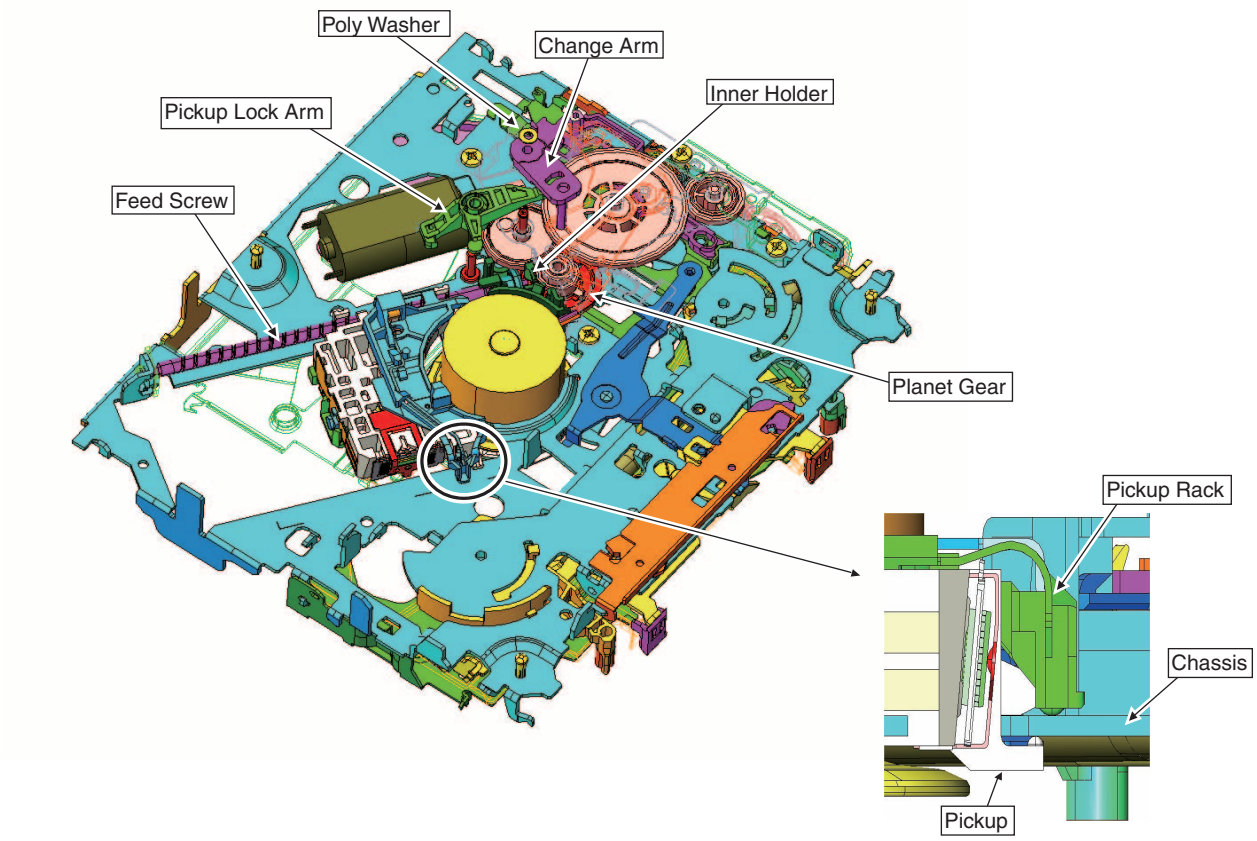


● How to remove the Pickup Unit

1. Make the system in the carriage mechanism mode, and have it clamped.
2. Remove the CD Core Unit and remove the leads from the Inner Holder.
3. Remove the Poly Washer, Change Arm, and Pickup Lock Arm.
4. While releasing from the hook of the Inner Holder, lift the end of the Feed Screw.

Caution: When assembling, move the Planet Gear to the load/eject position before setting the Feed Screw in the Inner Holder.

Assemble the sub unit side of the Pickup, taking the plate (Chassis) in-between. When treating the leads of the Load Carriage Motor Assy, do not make them loose over the Feed Screw.



8. EACH SETTING AND ADJUSTMENT
8.1 CD ADJUSTMENT

1) Cautions on adjustments

• In this product the single voltage (3.3 V) is used for the regulator. The reference voltage is the REFO1 (1.65 V) instead of the GND.
If you should mistakenly short the REFO1 with the GND during adjustment, accurate voltage will not be obtained, and the servo's misoperation will apply excessive shock to the pickup. To avoid such problems:
a. Do not mix up the REFO1 with the GND when connecting the (-) probe of measuring instruments. Especially on an oscilloscope, avoid connecting the (-) probe for CH1 to the GND.
b. In many cases, measuring instruments have the same potential as that for the (-) probe. Be sure to set the measuring instruments to the floating state.
c. If you have mistakenly connected the REFO1 to the GND, turn off the regulator or the power immediately.

• Before mounting and removing filters or leads for adjustment, be sure to turn off the regulator.

• For stable circuit operation, keep the mechanism operating for about one minute or more after the regulator is turned on.

• In the test mode, any software protections will not work. Avoid applying any mechanical or electrical shock to the mechanism during adjustment.

• The RFI and RFO signals with a wide frequency range are easy to oscillate. When observing the signals, insert a resistor of 1k ohms in series.

• The load and eject operation is not guarantied with the mechanism upside down. If the mechanism is blocked due to mistaken eject operation, reset the product or turn off and on the ACC to restore it.

2) Test mode

This mode is used to adjust the CD mechanism module.
• To enter the test mode.
While pressing the 4 and 6 keys at the same time, reset.
• To exit from the test mode.
Turn off the ACC and back up.

Notes:
a. During ejection, do not press any other keys than the EJECT key until the loaded disc is ejected.
b. If you have pressed the (->) key or (<-) key during focus search, turn off the power immediately to protect the actuator from damage caused by the lens stuck.
c. For the TR jump modes except 100TR, the track jump operation will continue even if the key is released.
d. For the CRG move and 100TR jump modes, the tracking loop will be closed at the same time when the key is released.
e. When the power is turned off and on, the jump mode is reset to the single TR (91), the RF amp gain is set to 0 dB, and the auto-adjustment values are reset to the default settings.

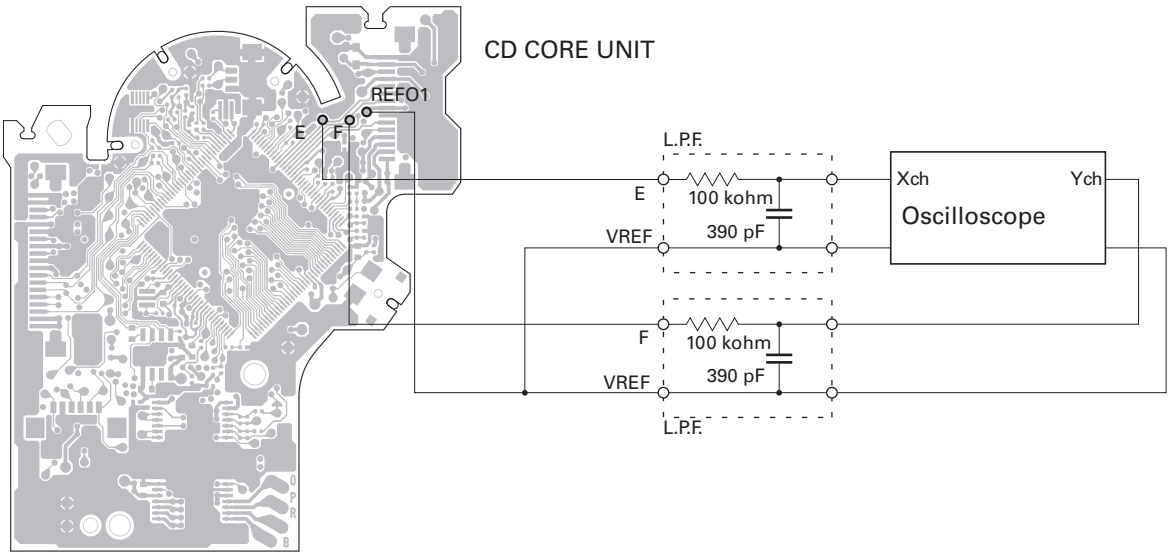
8.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT

- **Note :**
  The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

- **Purpose :**
  To check that the grating is within an acceptable range when the PU unit is changed.

- **Symptoms of Mal-adjustment :**
  If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

- **Method :**
- Measuring Equipment • Oscilloscope, Two L.P.F.
- Measuring Points • E, F, REFO1
- Disc • TCD-782
- Mode • TEST MODE



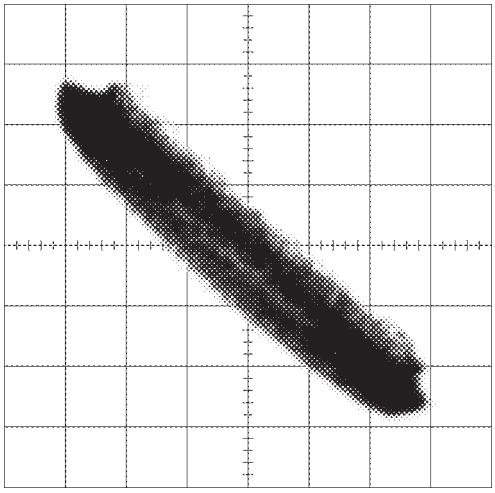
- **Checking Procedure**
1. In test mode, load the disc and switch the 3 V regulator on.
2. Using the -> and <- buttons, move the PU unit to the innermost track.
3. Press key 3 to close focus, the display should read "91". Press key 2 to implement the tracking balance adjustment the display should now read "81". Press key 3. The display will change, returning to "81" on the fourth press.
4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75 degrees. Refer to the photographs supplied to determine the phase angle.
5. If the phase difference is determined to be greater than 75 degrees try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75 degrees then the mechanism should be judged to be at fault.

- **Note**
  Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.
- **Hint**
  Reloading the disc changes the clamp position and may decrease the "wobble".

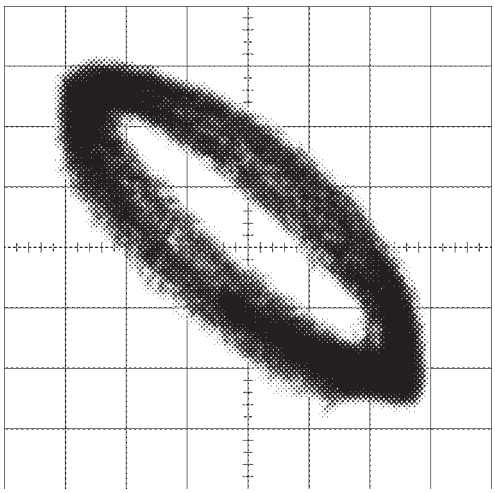
Grating waveform

Ech -> Xch 20 mV/div, AC
Fch -> Ych 20 mV/div, AC

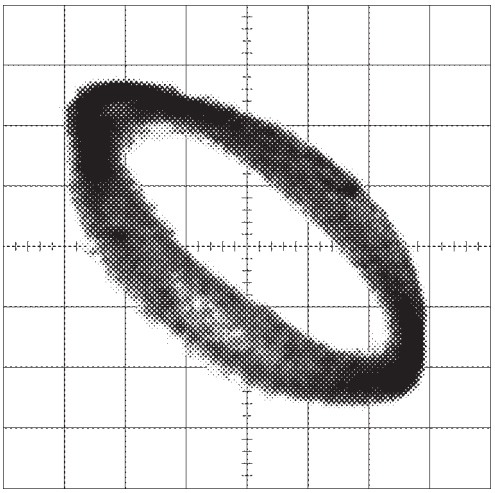
0 degrees



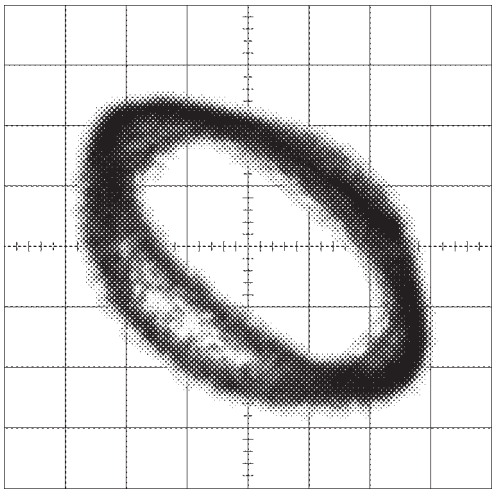
30 degrees



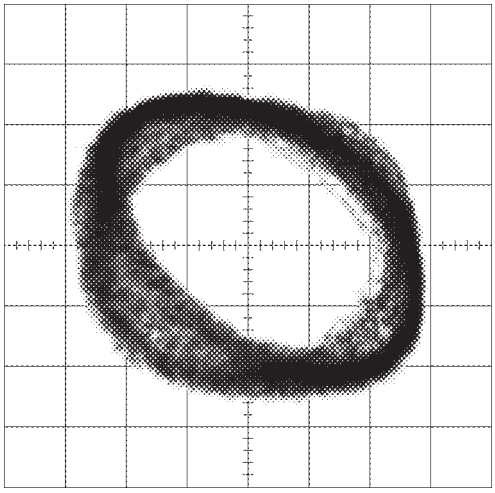
45 degrees



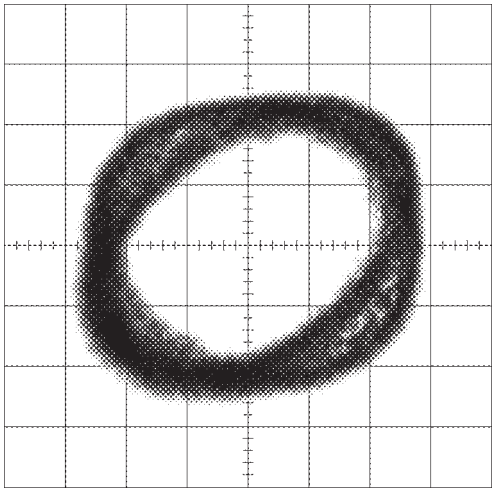
60 degrees



75 degrees



90 degrees



8.3 PCL OUTPUT CONFIRMATION

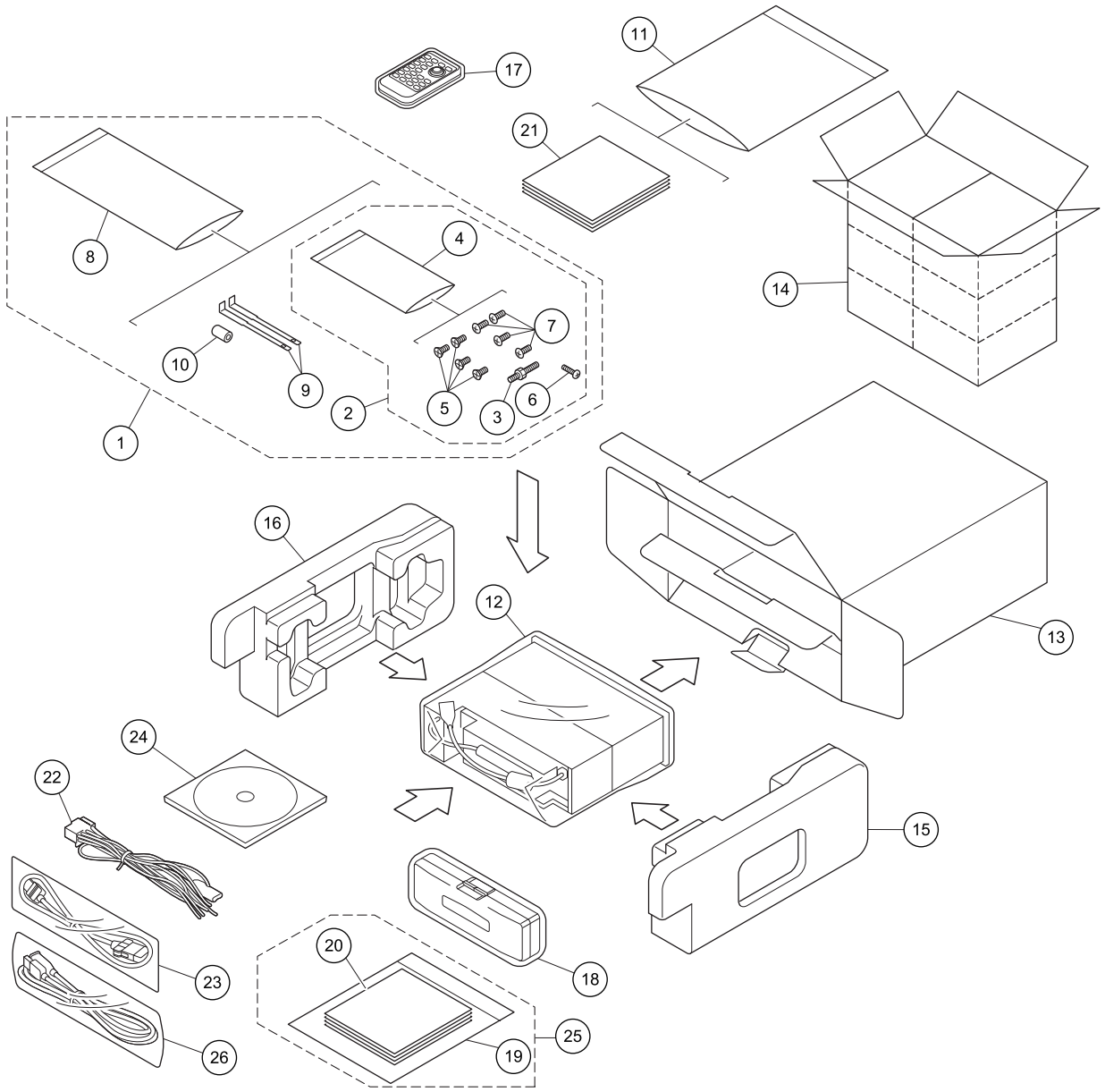
● PCL output

In the normal operation mode (with the detachable panel installed, the ACC switched ON, the standby mode cancelled), shift the STEST IC601(Pin 86) terminal to H.
The clock signal is output from the PCL1 terminal IC601(Pin 37).
The frequency of the clock signal is 468.8 kHz that is one 32th of the fundamental frequency.

9. EXPLODED VIEWS AND PARTS LIST

NOTES : • *Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.*
• *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
• *Screw adjacent to ▽ mark on the product are used for disassembly.*
• *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions,apply as you think it appropriate.)*

9.1 PACKING



(1) PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.
*	1	Accessory Assy	See Contrast table (2)
	2	Screw Assy	See Contrast table (2)
	3	Screw	CBA1650
*	4	Polyethylene Bag	CEG-127
	5	Screw	CRZ50P090FTC
	6	Screw	See Contrast table (2)
	7	Screw	TRZ50P080FTC
	8	Polyethylene Bag	CEG1160
	9	Handle	CND3707
	10	Bush	CNV3930
	11	Polyethylene Bag	CEG1116
	12	Polyethylene Bag	See Contrast table (2)
	13	Unit Box	See Contrast table (2)
	14	Contain Box	See Contrast table (2)
	15	Protector	CHP3502
	16	Protector	CHP3503
	17	Remote Control Unit	CXC9113
	18	Case Assy	QXA3049
*	19	Polyethylene Bag	CEG1250

Mark	No.	Description	Part No.
	20	Quick Start Guide	See Language table (3)
	21-1	Installation Manual	See Contrast table (2)
	21-2	Caution Card	CRP1310
*	21-3	Caution Card	See Contrast table (2)
*	21-4	Caution Card	CRP1366
*	21-5	Caution Card	XRP7002
*	21-6	Caution Card	See Contrast table (2)
*	21-7	Warranty Card	See Contrast table (2)
*	21-8	Service Network	See Contrast table (2)
	22	Cord Assy	XDP7004
	23	Cord Assy	See Contrast table (2)
	24	CD-ROM (Operation Manual)	See Contrast table (2)
	25	Owner's Manual Assy	See Contrast table (2)
	26	Cord Assy	CDP1040

(2) CONTRAST TABLE

DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC, DEH-P6050UB/XN/ES and DEH-P6050UB/XN/ES1 are constructed the same except for the following:

Mark	No.	Description	DEH-P600UB/XN/UC	DEH-P6000UB/XN/UC	DEH-P6050UB/XN/ES	DEH-P6050UB/XN/ES1
*	1	Accessory Assy	CEA7316	CEA7316	CEA7317	CEA7317
	2	Screw Assy	CEA5322	CEA5322	CEA3849	CEA3849
	6	Screw	JPZ20P060FTB	JPZ20P060FTB	Not used	Not used
	12	Polyethylene Bag	CEG1368	CEG1368	CEG1227	CEG1227
	13	Unit Box	CHG6390	CHG6389	CHG6392	CHG6408
	14	Contain Box	CHL6390	CHL6389	CHL6392	CHL6408
	21-1	Installation Manual	CRD4255	CRD4257	CRD4260	CRD4260
*	21-3	Caution Card	CRP1365	CRP1365	CRP1364	CRP1364
*	21-6	Caution Card	Not used	CRP1294	Not used	Not used
*	21-7	Warranty Card	CRY1070	CRY1246	Not used	CRY1250
*	21-8	Service Network	Not used	Not used	Not used	CRY1251
	23	Cord Assy	CDP1041	Not used	Not used	Not used
	24	CD-ROM (Operation Manual)	CPJ1215	CPJ1216	CPJ1217	CPJ1217
	25	Owner's Manual Assy	CXC9691	CXC9692	CXC9693	CXC9693

(3) Language of Quick Start Guide

Mark	DEH-P600UB/XN/UC	DEH-P6000UB/XN/UC	Language
*	CRB2608	CRB2610	English
*	CRB2609	CRB2611	French

Mark	DEH-P6050UB/XN/ES, /ES1	Language
*	CRB2612	English
*	CRB2613	Spanish
*	CRB2614	Portuguese(B)
*	CRB2615	Traditional Chinese
*	CRB2616	Arabic

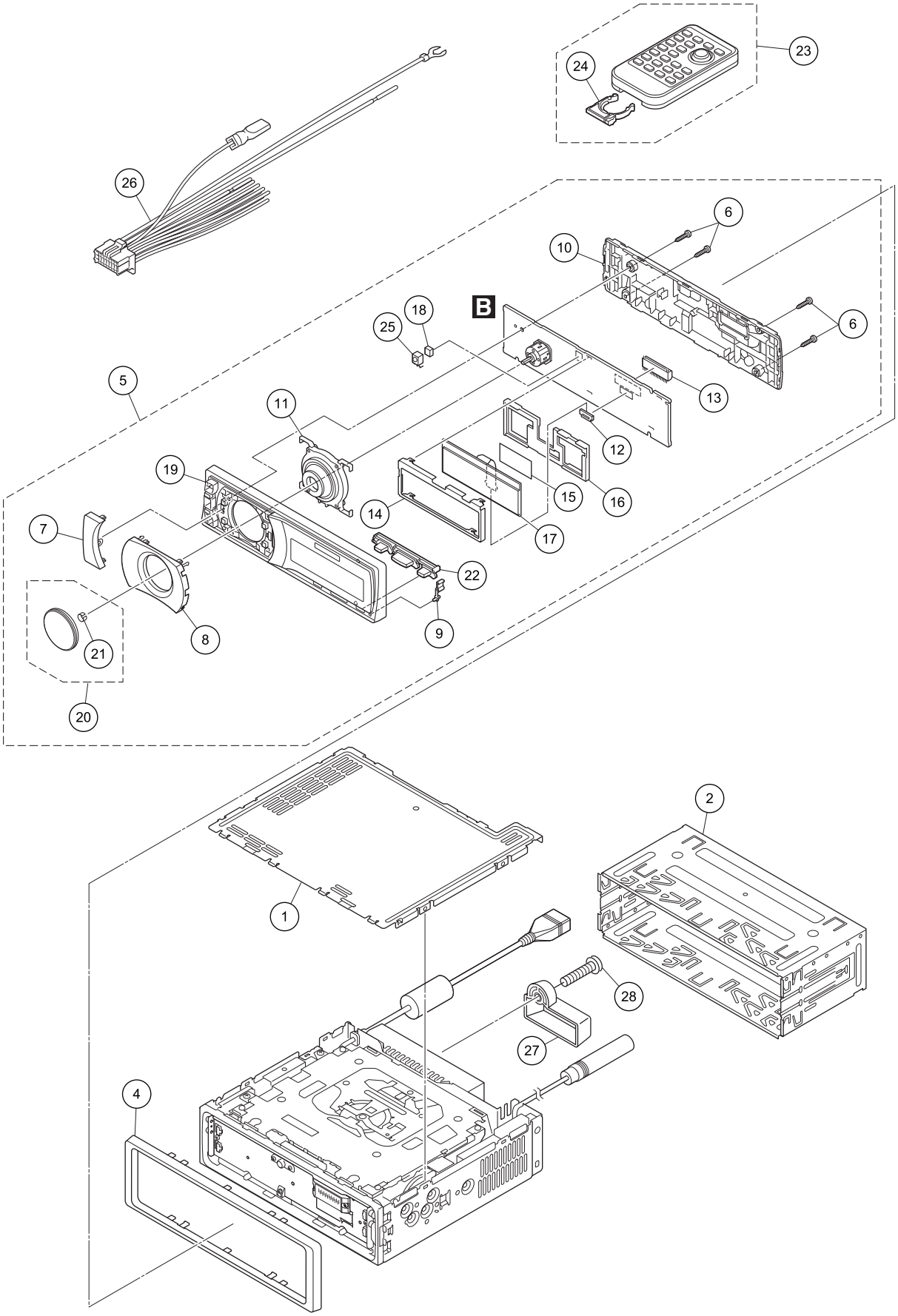
(4) CONTENTS OF CD-ROM (Operation Manual)

Mark	DEH-P600UB/XN/UC (CPJ1215)	DEH-P6000UB/XN/UC (CPJ1216)	Language
*	CRB2569	CRB2571	English
*	CRB2570	CRB2572	French

Mark	DEH-P6050UB/XN/ES, /ES1 (CPJ1217)	Language
*	CRB2573	English
*	CRB2574	Spanish
*	CRB2575	Portuguese(B)
*	CRB2576	Traditional Chinese
*	CRB2577	Arabic

All operation manuals are supplied in PDF files by the CD-ROM. No printed papers are available.

9.2 EXTERIOR(1)



(1) EXTERIOR(1) SECTION PARTS LIST

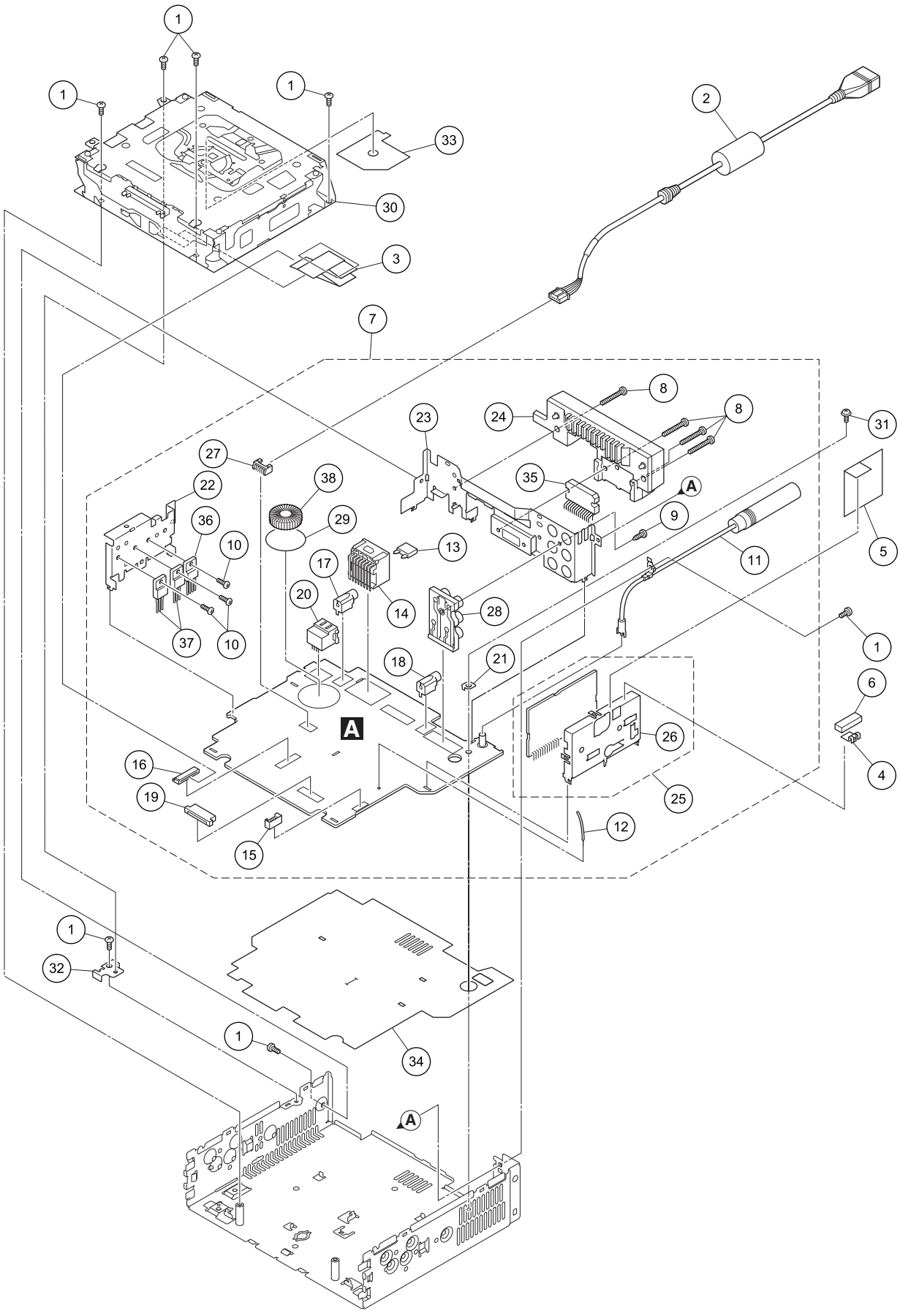
Mark	No.	Description	Part No.
	1	Case	CNB3466
	2	Holder	CND3598
	3	.....	
	4	Panel	See Contrast tabel (2)
	5	Detach Grille Assy	See Contrast tabel (2)
	6	Screw	BPZ20P080FTB
	7	Button(SRC, BAND)	CAI1661
	8	Button Unit (DISP, S.Rtrv, RDM, SW)	See Contrast tabel (2)
	9	Button(Reset)	CAI1676
	10	Cover	CNS9294
	11	Lighting Conductor	CNV9883
	12	Connector(CN1961)	CKS5545
	13	Connector(CN1801)	CKS5662
	14	Holder	CND4267
	15	Double Side Tape	CNM8673
	16	Holder	CNV9886
	17	OEL Unit	MXS8260
	18	Spacer	CNN2403
	19	Grille Unit	See Contrast tabel (2)
	20	Knob Unit	See Contrast tabel (2)
	21	Spring	XBL7005
	22	Button Unit(CLOCK, LIST, OPEN)	CXC8936
	23	Remote Control Unit	CXC9113
	24	Cover	CZN5357
	25	IC(IC1931)	GP1UX31RK
	26	Cord Assy	XDP7004
	27	Holder	See Contrast tabel (2)
	28	Screw	See Contrast tabel (2)

(2) CONTRAST TABLE

DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC, DEH-P6050UB/XN/ES and DEH-P6050UB/XN/ES1 are constructed the same except for the following:

Mark	No.	Description	DEH-P600UB/XN/UC	DEH-P6000UB/XN/UC	DEH-P6050UB/XN/ES DEH-P6050UB/XN/ES1
	4	Panel	CNS9342	CNS9319	CNS9319
	5	Detach Grille Assy	CXC8930	CXC8929	CXC8931
	8	Button Unit (DISP, S.Rtrv, RDM, SW)	CXC8880	CAI1672 (Button)	CXC9427
	19	Grille Unit	CXC8879	CXC8873	CXC8874
	20	Knob Unit	CXC8883	CXC8911	CXC8883
	27	Holder	Not used	CNV7619	Not used
	28	Screw	Not used	BMZ40P140FTC	Not used

9.3 EXTERIOR(2)



(1) EXTERIOR(2) SECTION PARTS LIST

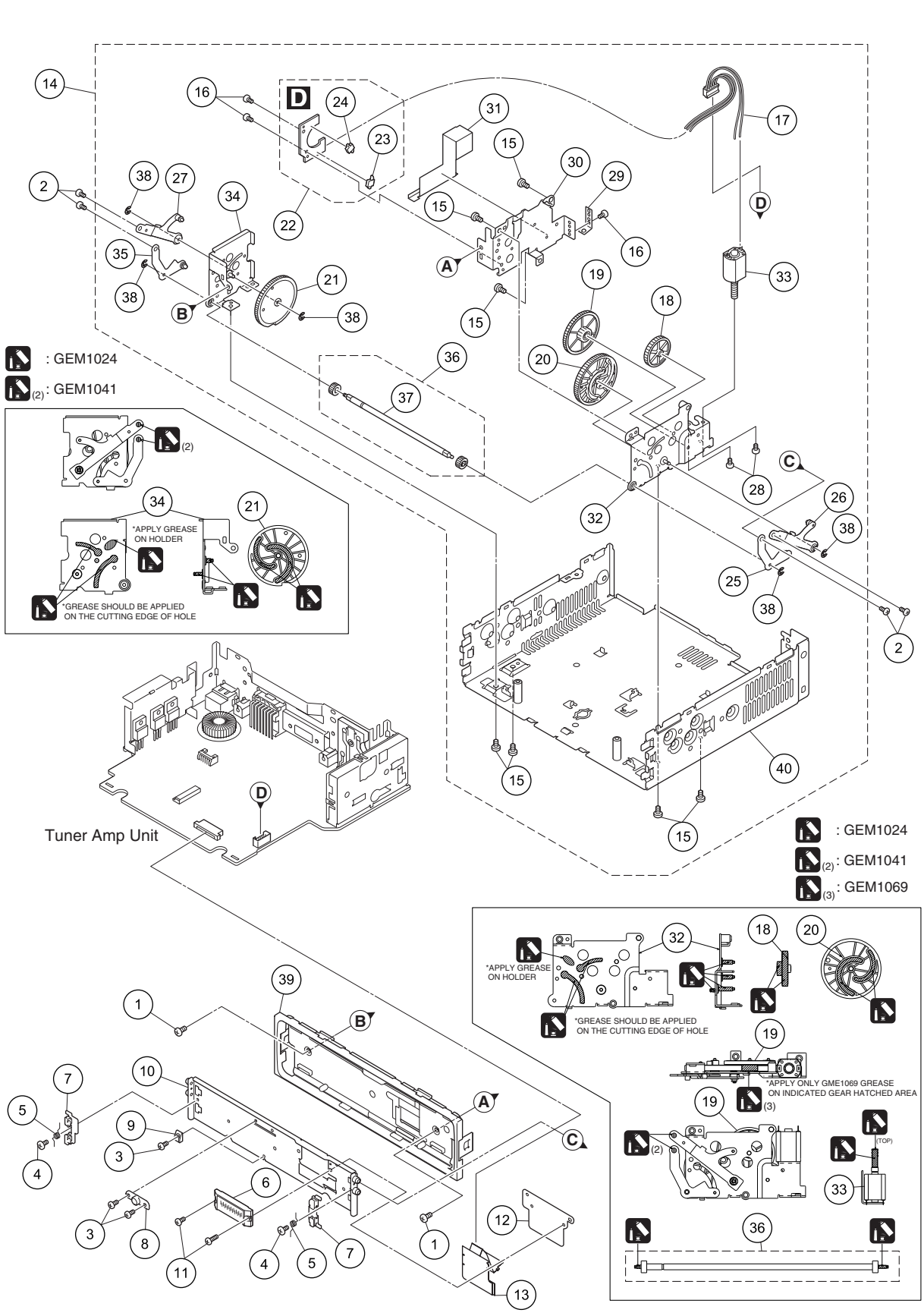
Mark	No.	Description	Part No.
	1	Screw	BSZ26P060FTC
	2	Cord Assy	CDE8351
	3	Cable	CDE8549
	4	Earth Plate	CND2171
	5	Insulator	CNM8790
	6	Cushion	CNM9126
	7	Tuner Amp Unit	See Contrast table (2)
	8	Screw	BMZ26P180FTC
	9	Screw	BPZ26P070FTC
	10	Screw	BSZ26P060FTC
	11	Antenna Cable(CN402)	CDH1336
	12	Clamper	CEF1048
⚠	13	Fuse(10 A)	YEK5001
	14	Plug(CN981)	CKM1376
	15	Plug(CN871)	CKS-786
	16	Connector(CN701)	CKS3833
	17	Connector(CN151)	See Contrast table (2)
	18	Connector(CN181)	CKS4124
	19	Connector(CN801)	CKS4811
	20	Connector(CN101)	CKS5271
	21	Holder(CN401)	CNC5399
	22	Holder	CND3133
	23	Holder	See Contrast table (2)
	24	Heat Sink	CNR1940
	25	FM/AM Tuner Unit(Y401)	CWE2098
	26	Holder	CND4324
	27	Plug(CN781)	KM200NA5L
	28	Pin Jack(CN302)	XKB7001
	29	Insulator	XNM7031
	30	CD Mechanism Module(S10.5)	CXK5770
	31	Screw	ISS26P055FTC
	32	Holder	XNC7014
	33	Insulator	XNM7106
	34	Insulator	XNM7114
	35	IC(IC351)	PAL007C
	36	IC(IC911)	NJM2388F84
	37	Transistor(Q751,Q901)	2SD2396
	38	Choke Coil(L981)	CTH1280

(2) CONTRAST TABLE

DEH-P600UB/XN/UC, DEH-P6000UB/XN/UC, DEH-P6050UB/XN/ES and DEH-P6050UB/XN/ES1 are constructed the same except for the following:

Mark	No.	Description	DEH-P600UB/XN/UC	DEH-P6000UB/XN/UC	DEH-P6050UB/XN/ES DEH-P6050UB/XN/ES1
	7	Tuner Amp Unit	CWN3149	CWN3148	CWE3150
	17	Connector(CN151)	CKS4124	CKS4124	Not used
	23	Holder	CND4255	CND4255	CND4256

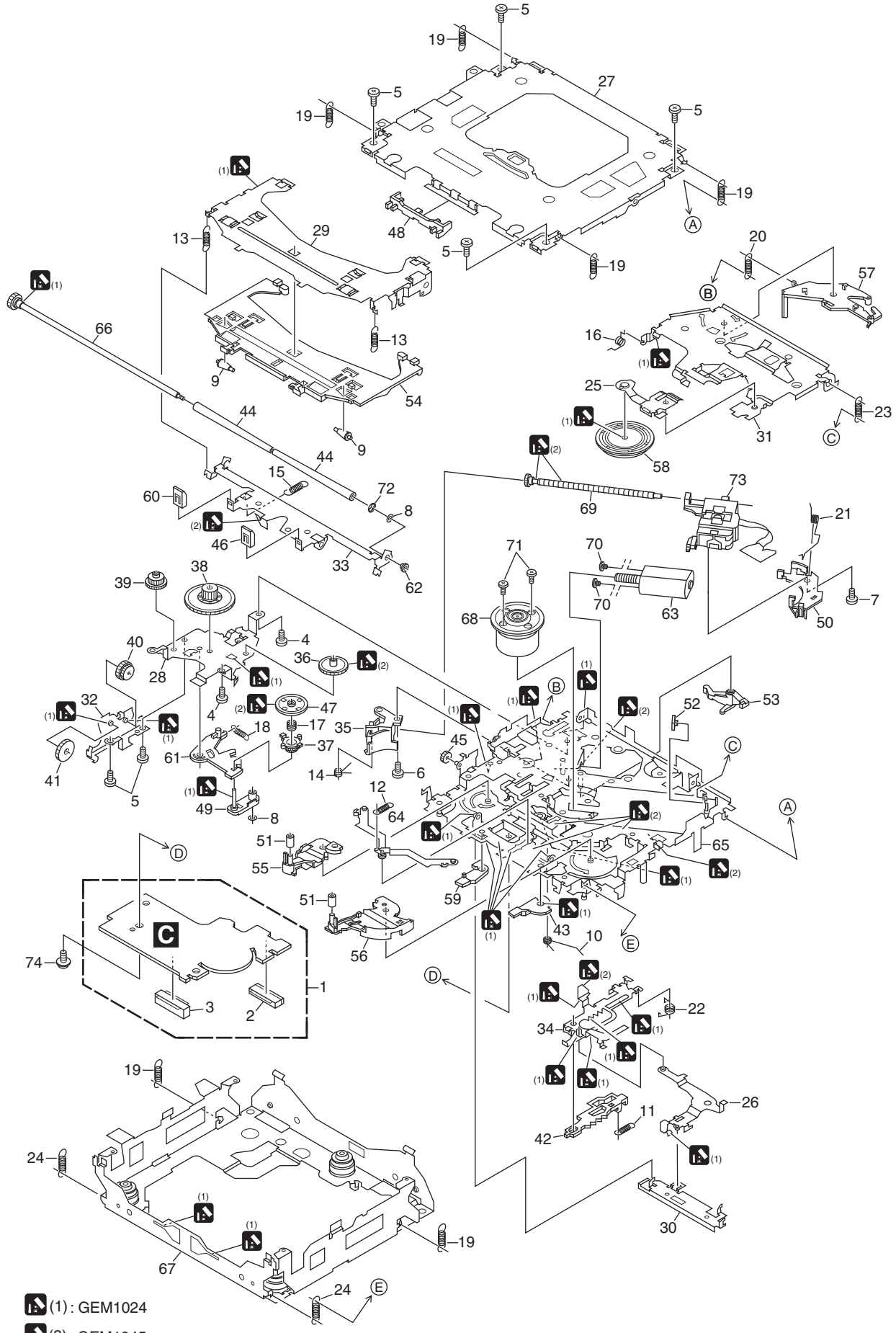
9.4 DRIVE UNIT


: GEM1024
(2): GEM1041
*APPLY GREASE ON HOLDER
*GREASE SHOULD BE APPLIED ON THE CUTTING EDGE OF HOLE
Tuner Amp Unit
: GEM1024
(2): GEM1041
(3): GEM1069
*APPLY GREASE ON HOLDER
*GREASE SHOULD BE APPLIED ON THE CUTTING EDGE OF HOLE
*APPLY ONLY GME1069 GREASE ON INDICATED GEAR HATCHED AREA
(TOP)

DRIVE UNIT SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw(M2.6 x 4)	CBA1828
	2	Screw(M2 x 2.5)	CBA1924
	3	Screw(M2 x 2)	CBA1871
	4	Screw(M2 x 1.9)	CBA1935
	5	Spring	CBH2530
	6	Connector	CKS5273
	7	Arm	CNV6962
	8	Guide	CNV6967
	9	Guide	CNV8048
	10	Case Unit	CXC6483
	11	Screw(M2 x 3.5)	XBA7002
	12	Holder	XNC7019
	13	Flexible PCB	XNP7026
	14	Drive Unit	CXC8854
	15	Screw	BMZ26P040FTC
	16	Screw(M2 x 2)	CBA1871
	17	Cord	CDE7392
	18	Gear	CNV7752
	19	Gear	CNV7753
	20	Gear	CNV7754
	21	Gear	CNV7755
	22	Switch Unit	CWS1389
	23	Switch	CSN1051
	24	Spring Switch	CSN1052
	25	Arm Unit	CXC2199
	26	Arm Unit	CXC6623
	27	Arm Unit	CXC6624
	28	Screw	JFZ20P020FTC
	29	Spring	XBL7003
	30	Holder	XNC7017
	31	Insulator	XNM7119
	32	Holder Unit	XXA7399
	33	Motor Unit	XXA7400
	34	Holder Unit	XXA7401
	35	Arm Unit	XXA7403
	36	Gear Unit	XXA7424
	37	Shaft	XLA7001
	38	Washer	YE15FTC
	39	Panel Unit	CXC8925
*	40	Chassis Unit	CXC8855

9.5 CD MECHANISM MODULE



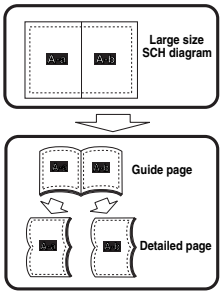
CD MECHANISM MODULE SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	CD Core Unit(S10.5COMP2-iPod)	CWX3526
	2	Connector(CN101)	CKS4182
	3	Connector(CN701)	CKS4186
	4	Screw	BMZ20P025FTC
	5	Screw	BSZ20P040FTC
	6	Screw(M2 x 3)	CBA1511
	7	Screw(M2 x 4)	CBA1835
	8	Washer	CBF1038
	9	Roller	CNV9499
	10	Spring	CBH2609
	11	Spring	CBH2612
	12	Spring	CBH2614
	13	Spring	CBH2616
	14	Spring	CBH2617
	15	Spring	CBH2620
	16	Spring	CBH2855
	17	Spring	CBH2937
	18	Spring	CBH2735
	19	Spring	CBH2854
	20	Spring	CBH2642
	21	Spring	CBH2856
	22	Spring	CBH2857
	23	Spring	CBH2860
	24	Spring	CBH2861
	25	Spring	CBL1686
	26	Arm	CND1909
	27	Frame	CND2582
	28	Bracket	CND2583
	29	Arm	CND3831
	30	Lever	CND2585
	31	Arm	CND2586
	32	Bracket	CND2587
	33	Arm	CND2588
	34	Lever	CND2589
	35	Holder	CNV7201
	36	Gear	CNV7207
	37	Gear	CNV7208
	38	Gear	CNV7209
	39	Gear	CNV7210
	40	Gear	CNV7211
	41	Gear	CNV7212
	42	Rack	CNV7214
	43	Arm	CNV7216
	44	Roller	CNV7218
	45	Gear	CNV7219
	46	Guide	CNV7361
	47	Gear	CNV7595
	48	Guide	CNV7799
	49	Arm	CNV7805
	50	Rack	CNV8342
	51	Roller	CNV8343
	52	Holder	CNV8344
	53	Arm	CNV8345
	54	Guide	CNV9498
	55	Arm	CNV8348
	56	Arm	CNV8349
	57	Arm	CNV8350
	58	Clamper	CNV8365
	59	Arm	CNV8386
	60	Guide	CNV8396
	61	Arm	CNV8413
	62	Collar	CNV8938
	63	Motor Unit(M2)	CXC4026
	64	Arm Unit	CXC4027
	65	Chassis Unit	CXC4028
	66	Gear Unit	CXC4029
	67	Frame Unit	CXC4031
	68	Motor Unit(M1)	CXC7134
	69	Screw Unit	CXC6359
	70	Screw	JFZ20P020FTC
	71	Screw	JGZ17P022FTC
	72	Washer	YE20FTC
	73	Pickup Unit(P10.5)(Service)	CXX1942
	74	Screw	IMS26P030FTC

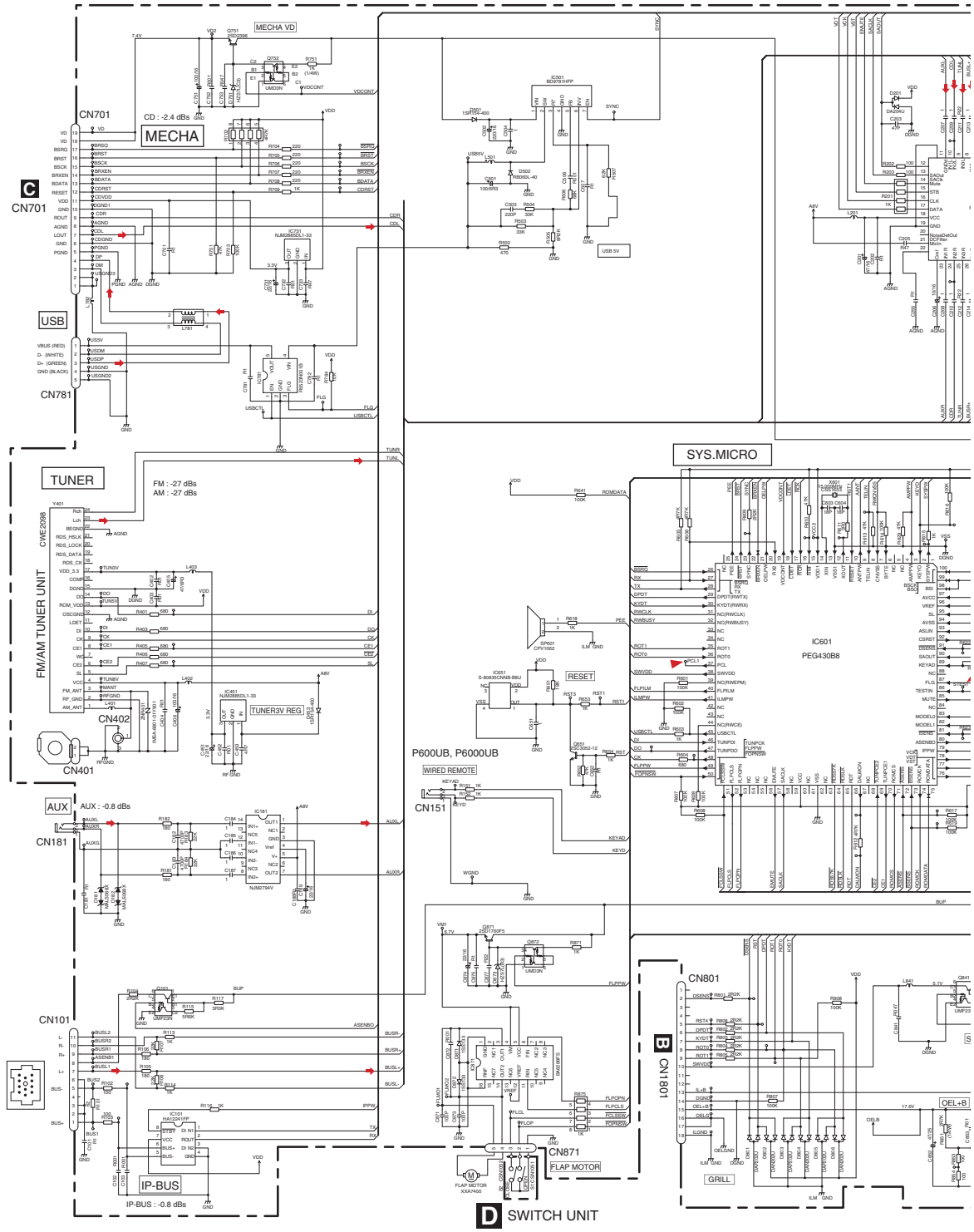
10. SCHEMATIC DIAGRAM

10.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

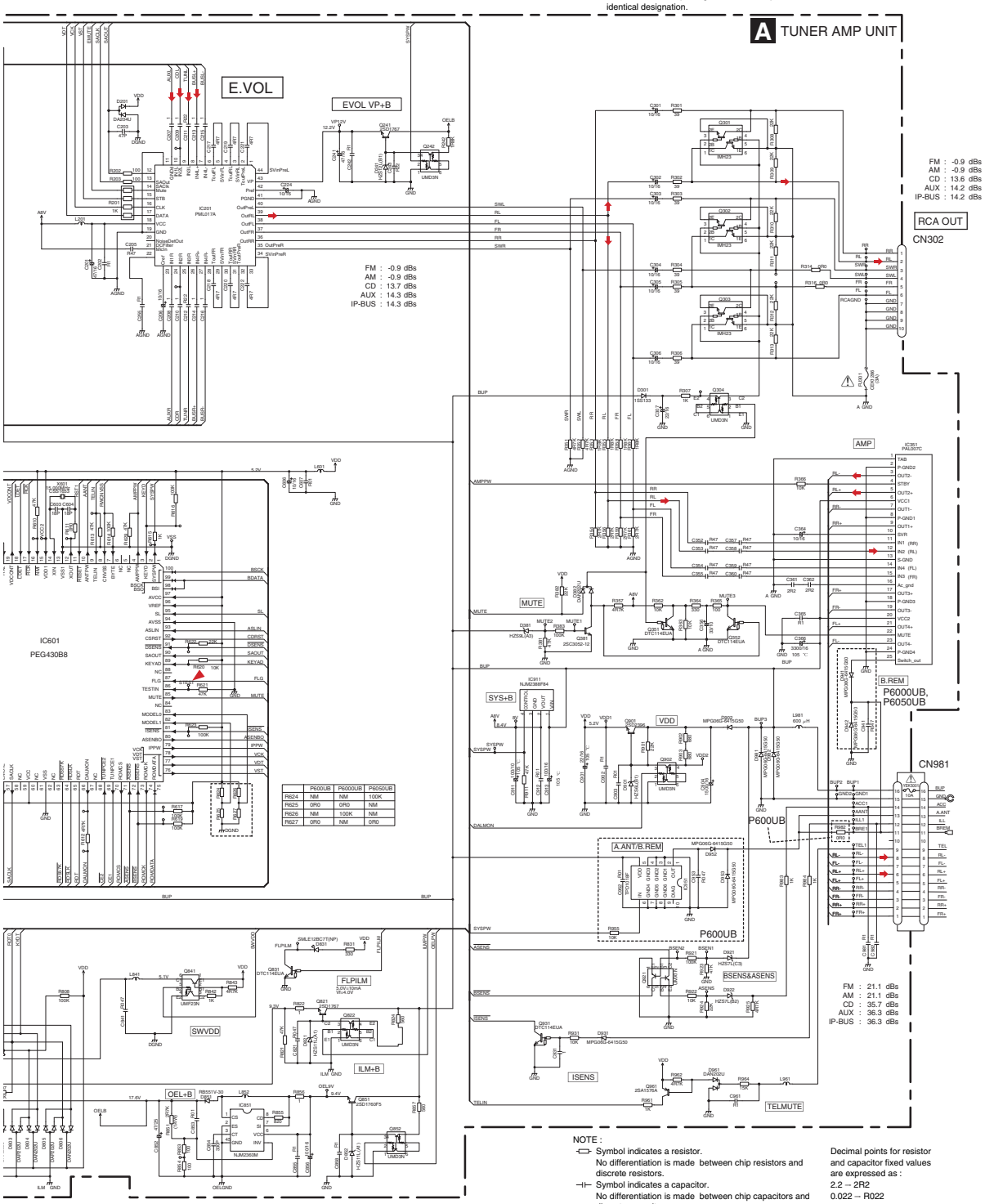


A-a



A-b

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



	P600UB	P6000UB	P6050UB
R624	NM	NM	100K
R625	0R0	0R0	NM
R626	NM	100K	NM
R627	0R0	NM	0R0

NOTE :

- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as :
2.2 → 2R2
0.022 → R022

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

A TUNER AMP UNIT

DEH-P600UB/XN/UC

E.VOL

EVOL VP+B

IC201 PML017A

FM : -0.9 dBs
AM : -0.9 dBs
CD : 13.7 dBs
AUX : 14.3 dBs
IP-BUS : 14.3 dBs

FM : -0.9 dBs
AM : -0.9 dBs
CD : 13.6 dBs
AUX : 14.2 dBs
IP-BUS : 14.2 dBs

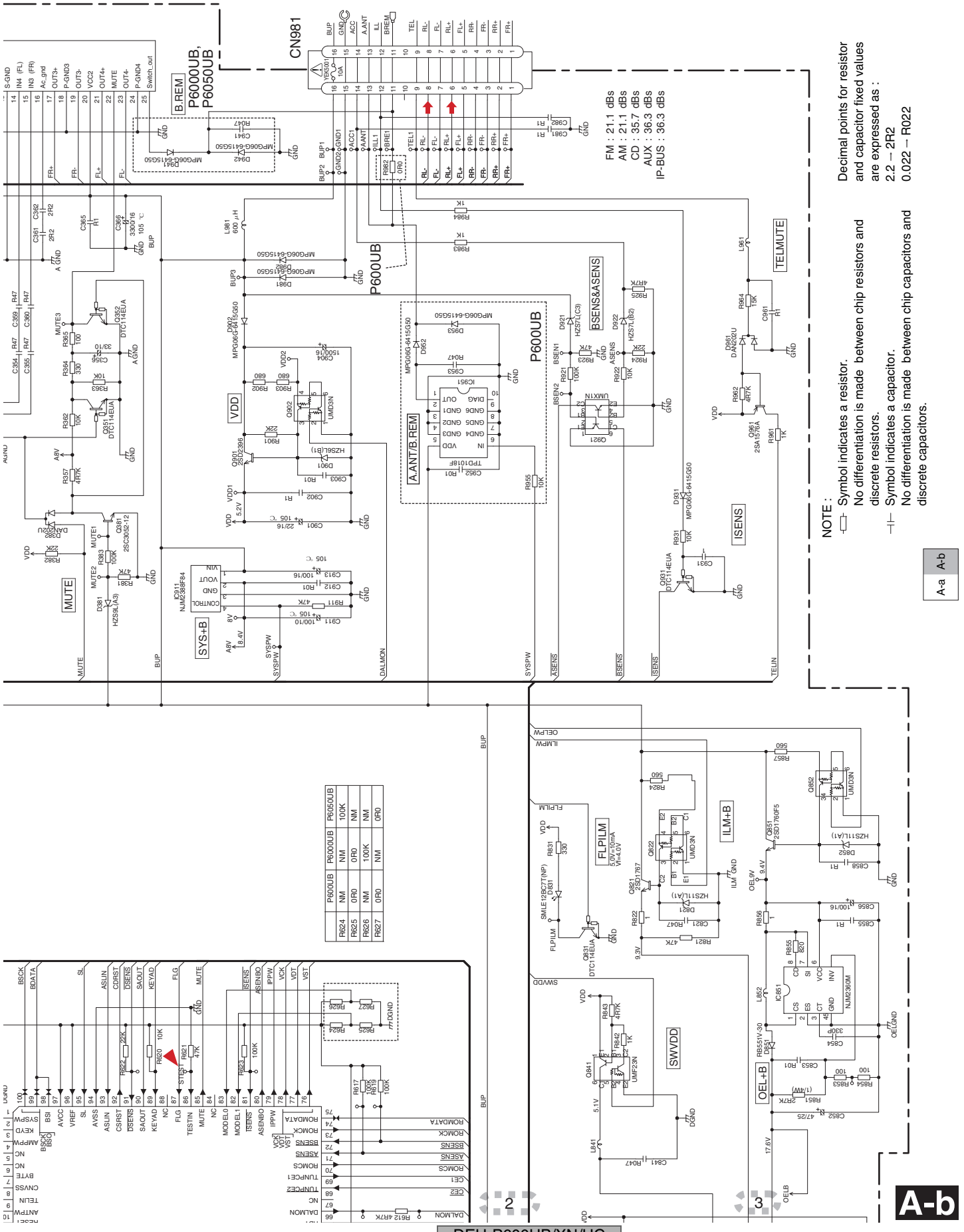
RCA OUT

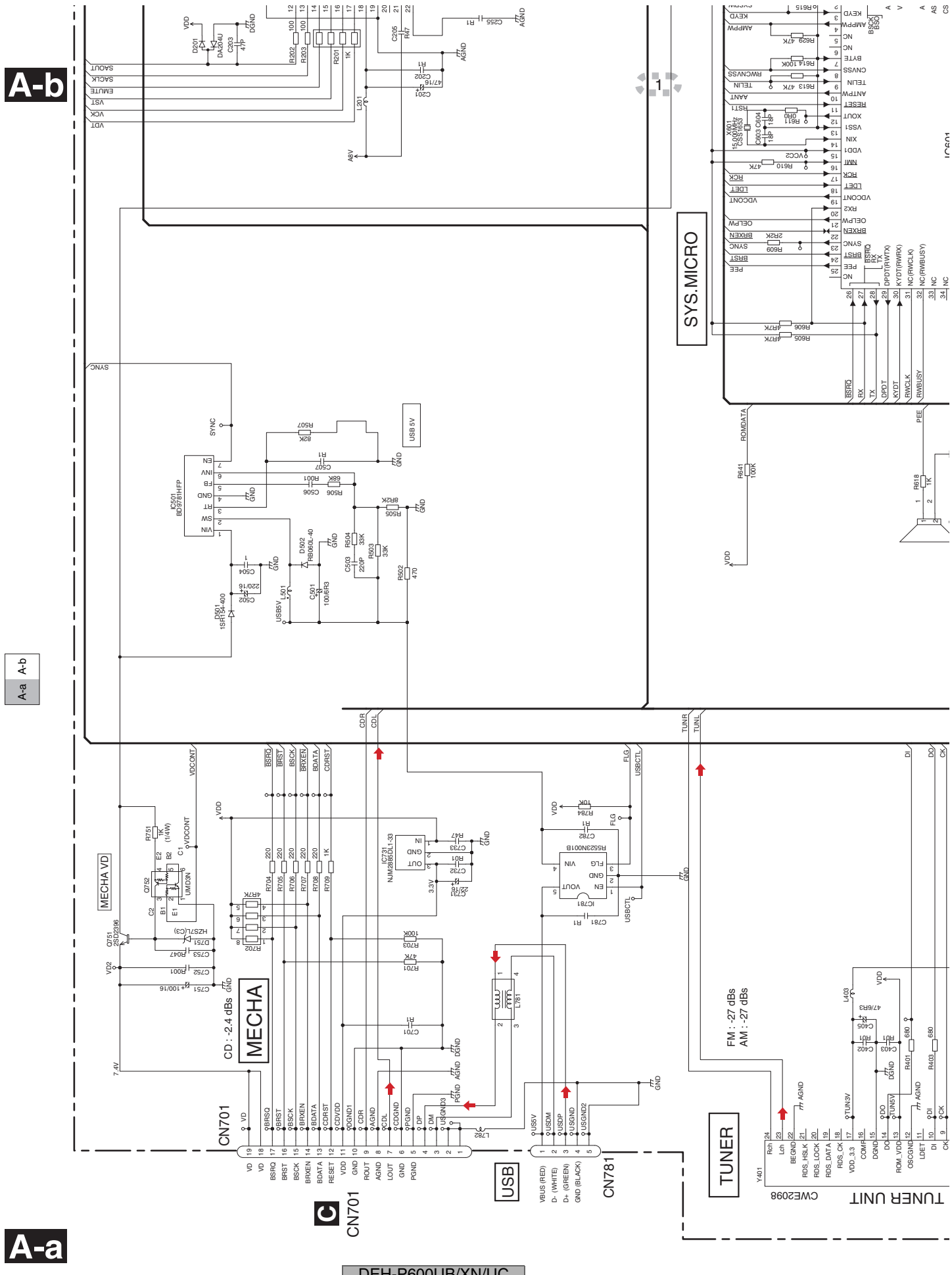
CN302

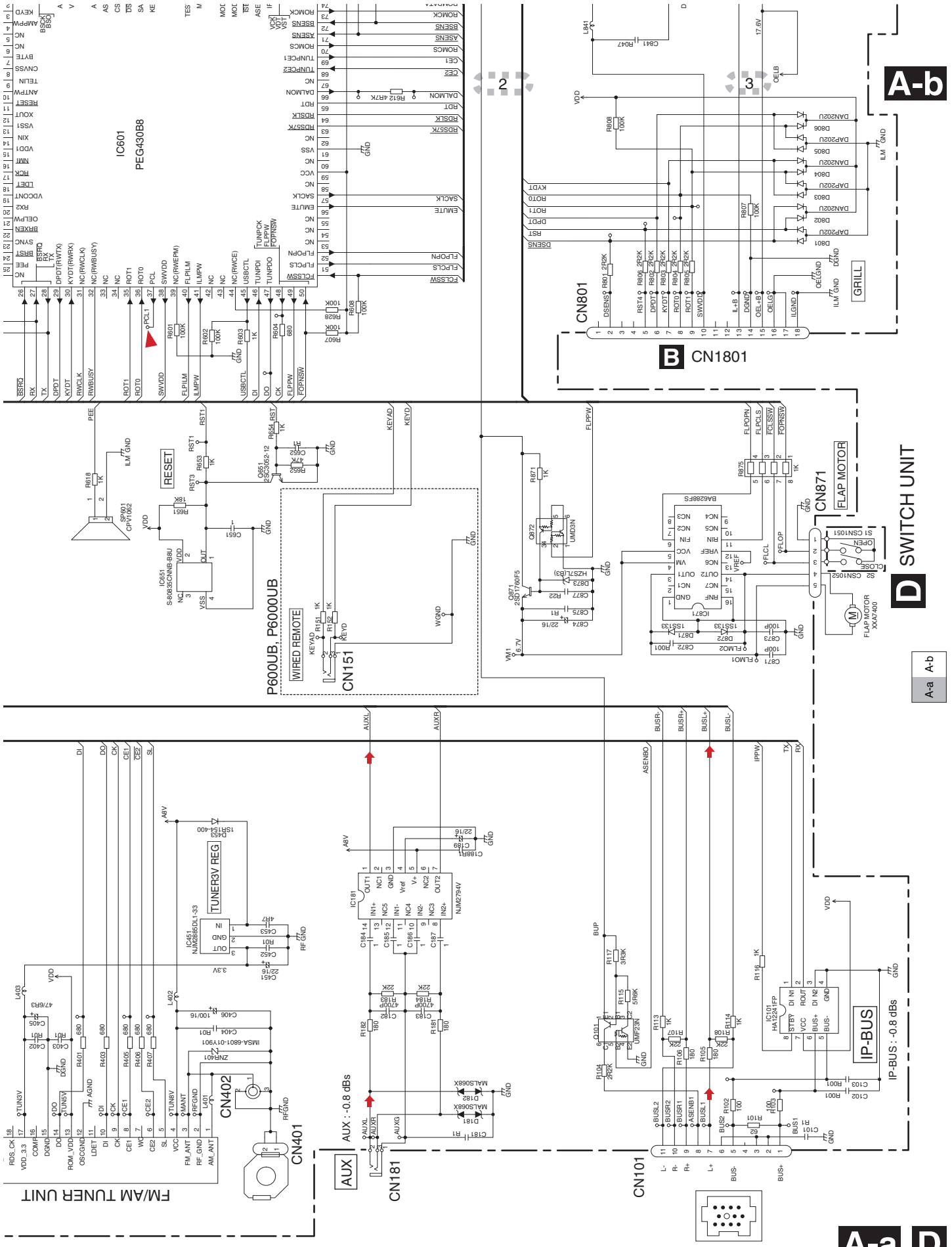
MUTE

AMP

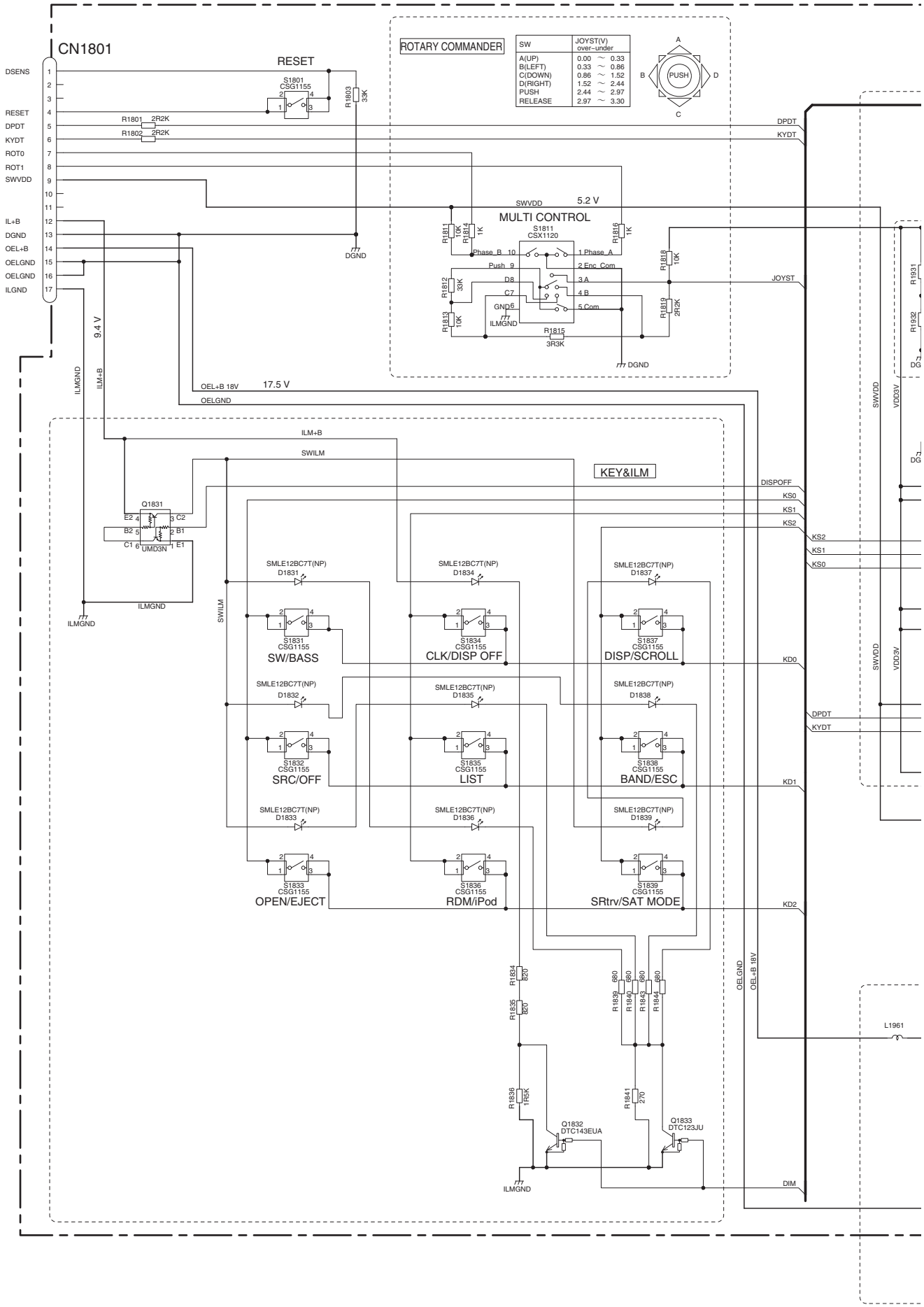
IC351 PAL007C

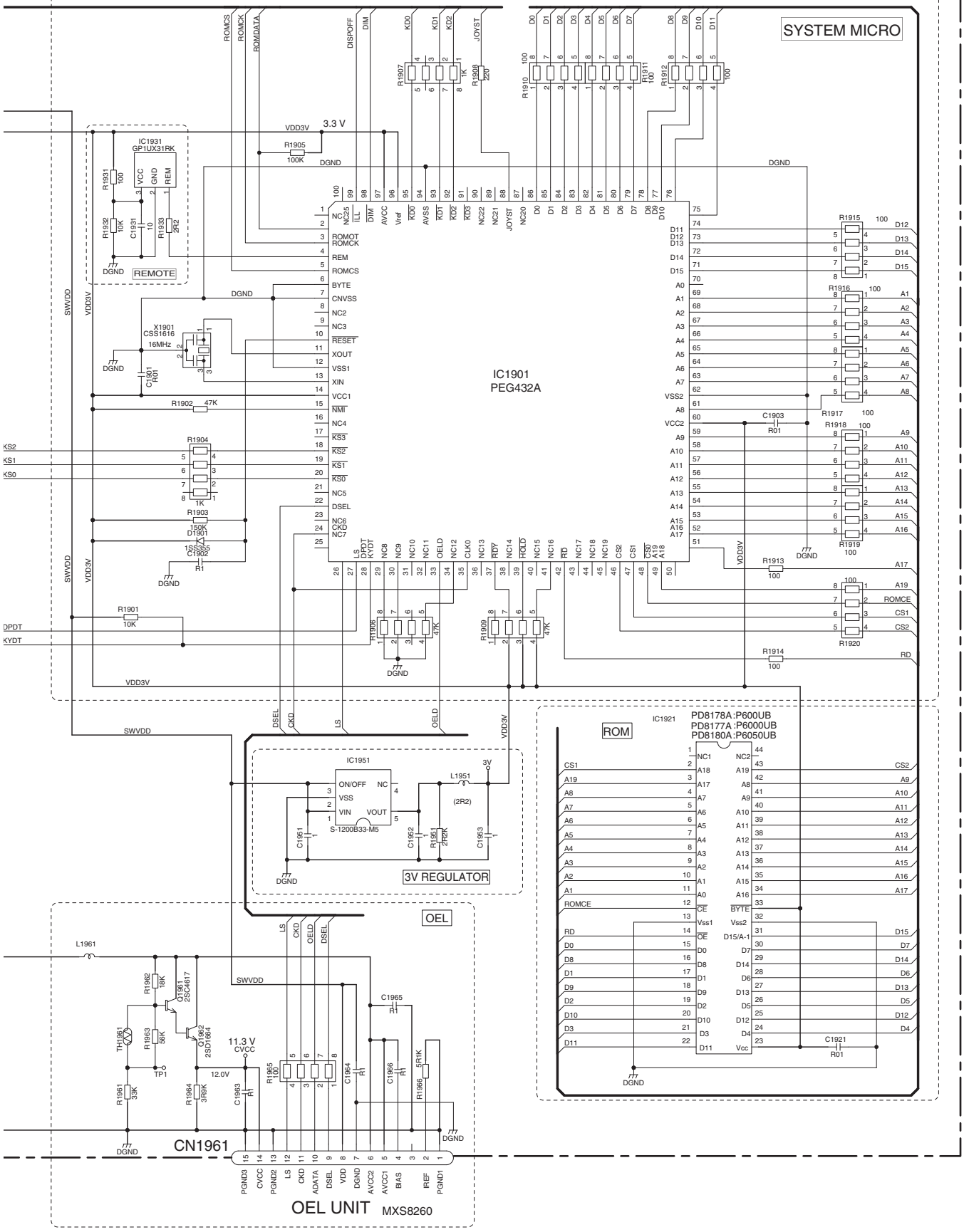

CN981
P6000UB, P6050UB
P600UB
B.REM
MUTE
SYS+B
VDD
A.ANT/B.REM
BSENS&ASENS
TELMUTE
ISENS
SWVDD
FLPILM
ILM+B
OEL+B
FM : 21.1 dBs
AM : 21.1 dBs
CD : 35.7 dBs
AUX : 36.3 dBs
IP-BUS : 36.3 dBs
Decimal points for resistor and capacitor fixed values are expressed as :
2.2 → 2R2
0.022 → R022
NOTE :
Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.
A-b
A-a
P600UB P6050UB
R624 NM 100K
R625 0R0 NM
R626 NM NM
R627 0R0 0R0


A-b
SYS.MICRO
SAOUT
SACLK
EMUTE
VST
VCK
VDT
SYNC
USB 5V
IC501
BD9781HFP
D502
RB060L-40
D501
1SR154-400
L501
C501
100/6R3
ROMDATA
R641
100K
R618
1K
VDD
BSRQ
RX
TX
DPDT
KYDT
RWCLK
RWBUSY
PEE
A-b
A-a
MECHA VD
MECHA
CD : -2.4 dBs
7.4V
VD2
VDCONT
Q751
2SD2396
Q752
UMD3N
D751
HZS7L(C3)
IC731
NJM2885DL1-33
IC781
R5523N001B
L781
CN701
CN781
USB
VBUS (RED)
D- (WHITE)
D+ (GREEN)
GND (BLACK)
TUNER
TUNER UNIT
CWE2098
FM : -27 dBs
AM : -27 dBs
Y401
L403
47/6R3
R401
680
R403
680
C
CN701
A-a


A-b
B CN1801
CN801
GRILL
D SWITCH UNIT
CN871
FLAP MOTOR
RESET
WIRED REMOTE
P600UB, P600UB
CN151
IC601
PEG430B8
A-b
A-a
IP-BUS
IP-BUS : -0.8 dBs
AUX : -0.8 dBs
AUX
CN181
CN101
CN401
CN402
FM/AM TUNER UNIT
A-a D

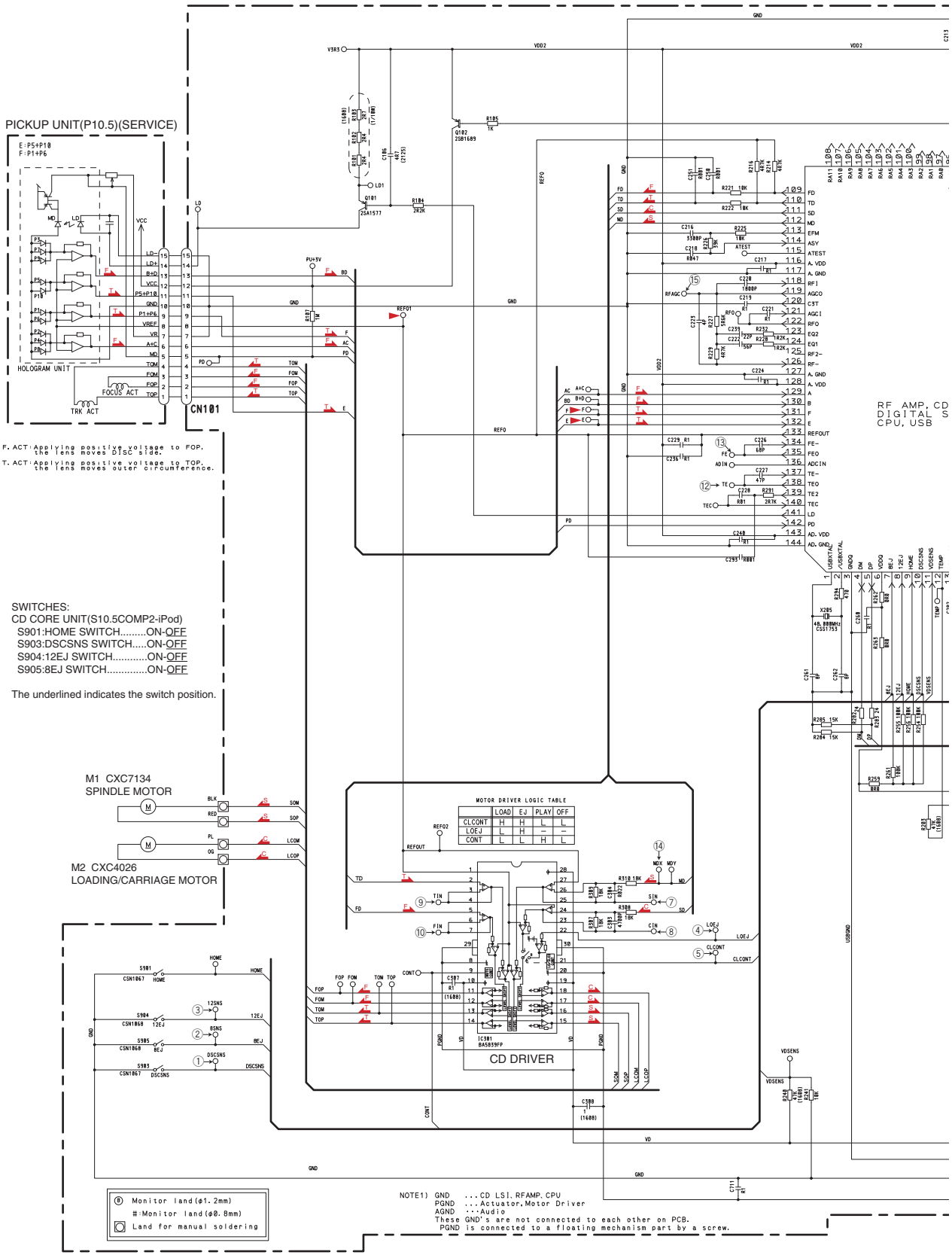
10.2 KEYBOARD UNIT



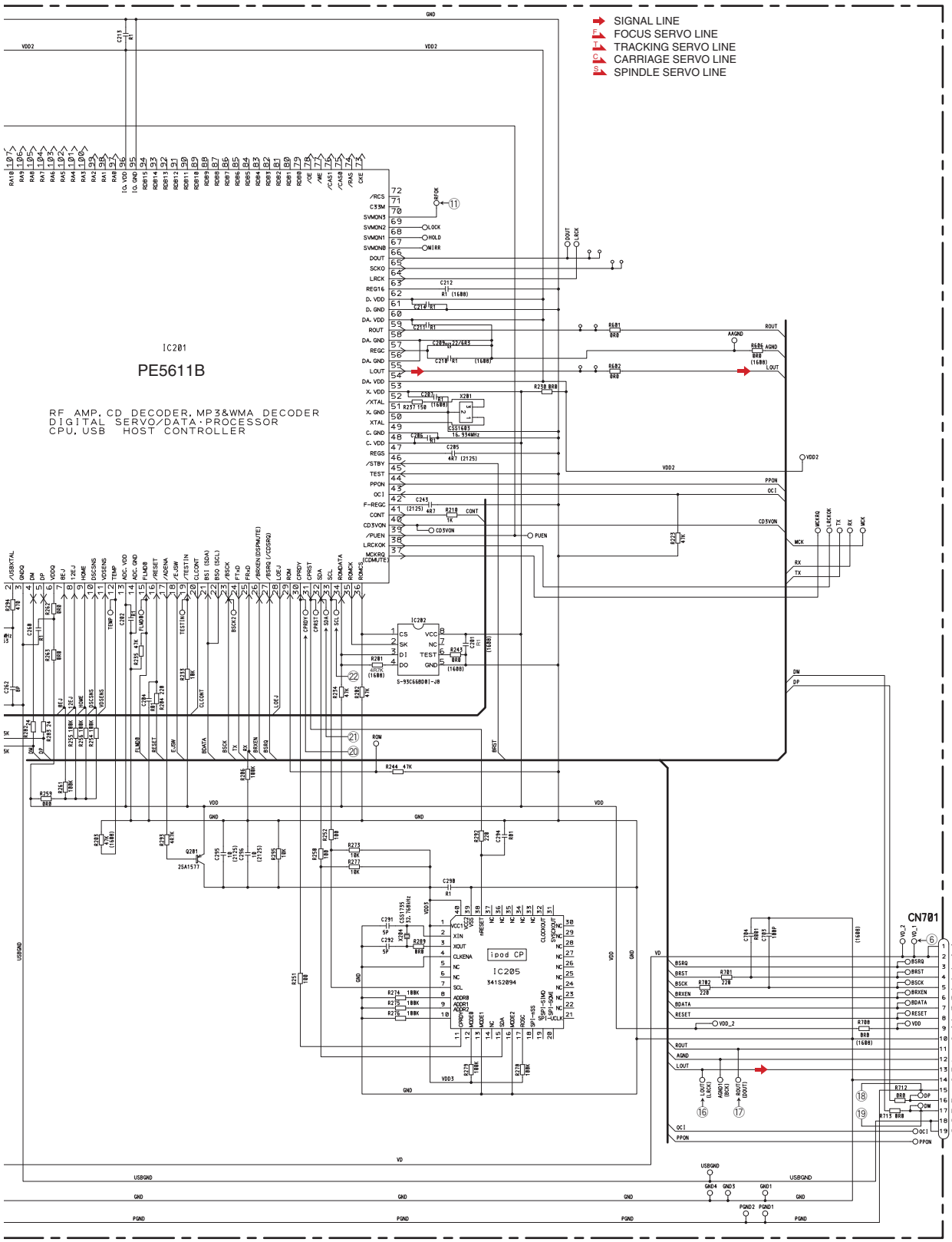

SYSTEM MICRO
IC1901
PEG432A
REMOTE
IC1931
GP1UX31RK
X1901
CSS1616
16MHz
3V REGULATOR
IC1951
S-1200B33-M5
ROM
IC1921
PD8178A:P600UB
PD8177A:P6000UB
PD8180A:P6050UB
OEL
CN1961
OEL UNIT MXS8260
VDD3V
3.3 V
SWVDD
DGND
DPDT
KYDT
DSEL
CKD
LS
OELD
11.3 V
CVCC
12.0V

10.3 CD MECHANISM MODULE(GUIDE PAGE)

C-a



C CD CORE UNIT(S10.5COMP2-iPod)



C CD CORE UNIT(S10.5COMP2-iPod)

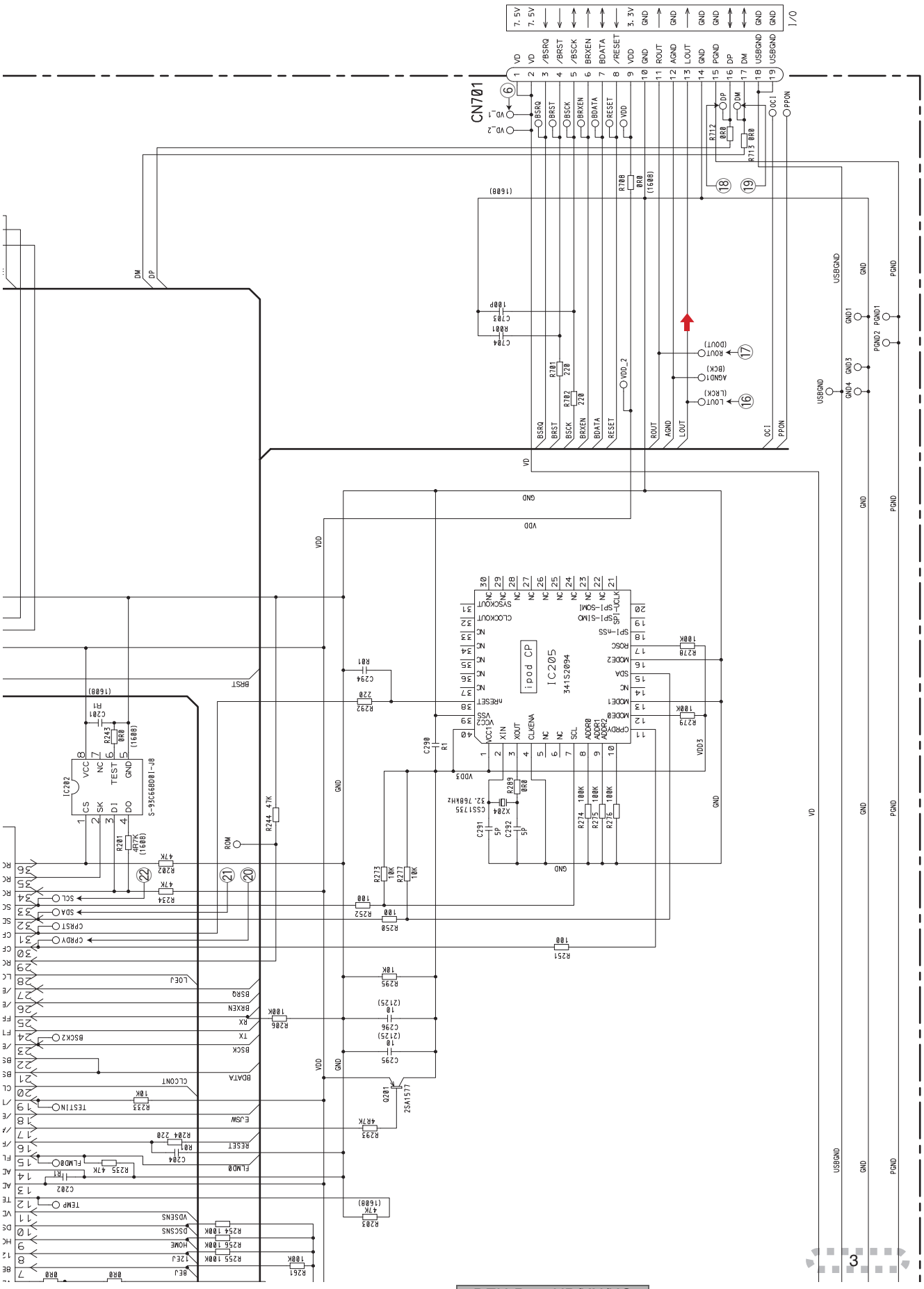
SIGNAL LINE
FOCUS SERVO LINE
TRACKING SERVO LINE
CARRIAGE SERVO LINE
SPINDLE SERVO LINE

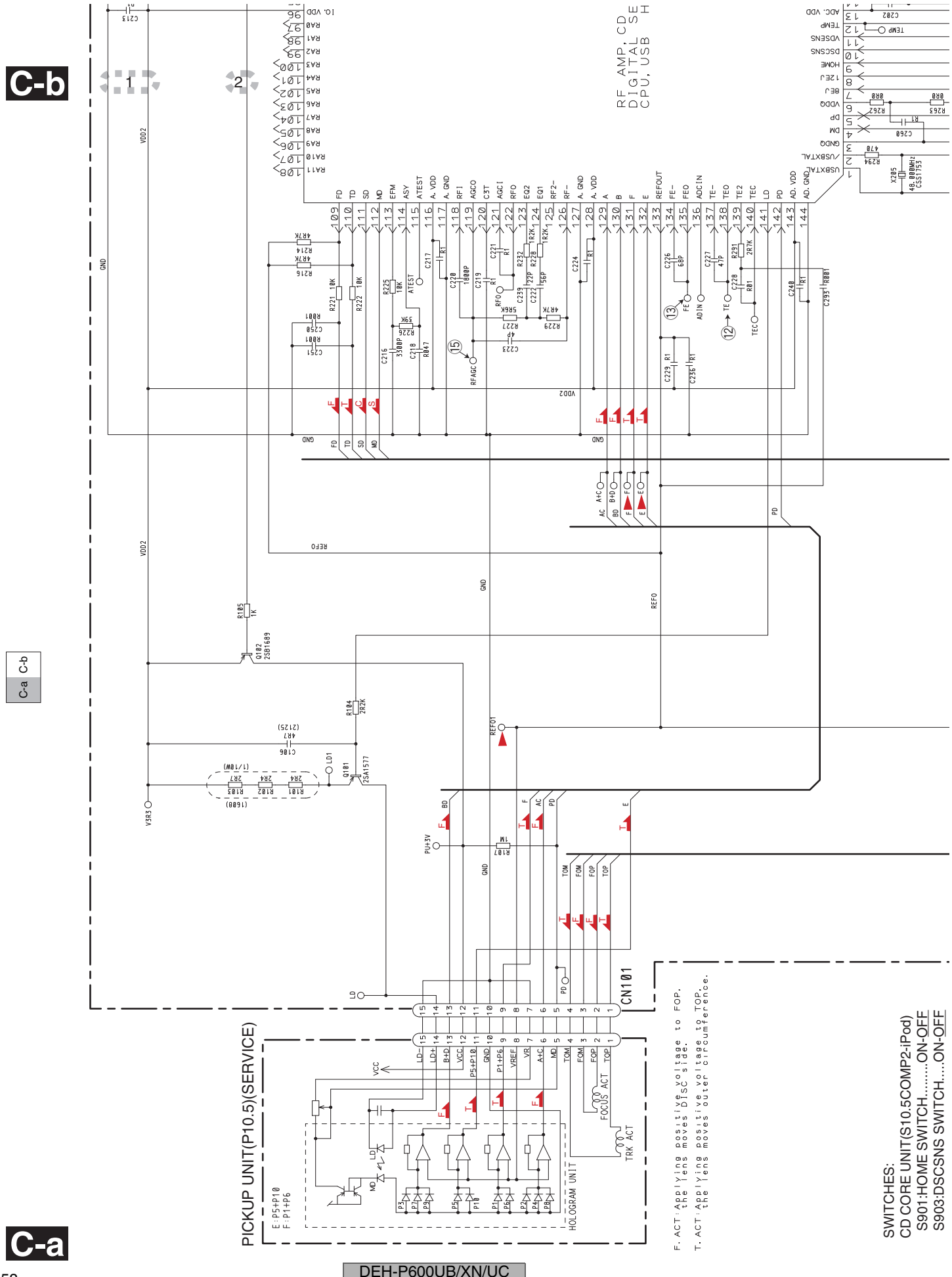
IC201

PE5611B

RF AMP, CD DECODER, MP3&WMA DECODER
DIGITAL SERVO/DATA·PROCESSOR
CPU, USB HOST CONTROLLER

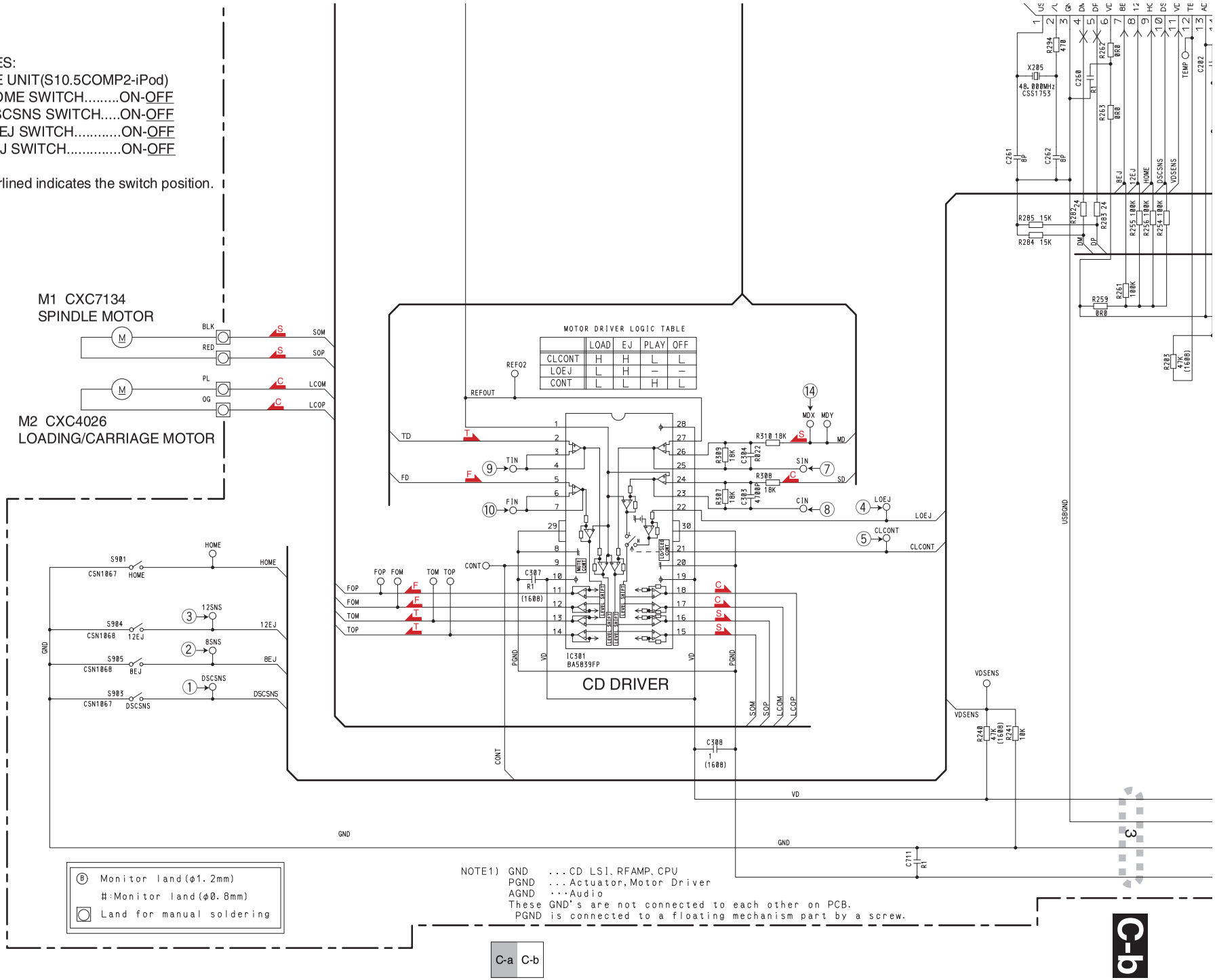
A CN701


CN701
7.5V
7.5V
3.3V
I/O
VD
/BSRQ
/BRST
/BSCK
BRXEN
BDATA
/RESET
VDD
GND
ROUT
AGND
LOUT
PGND
DP
DM
USBGND
OC1
PPON
IC205
ipod CP
3415Z094
S-93C66B001-J8
IC202
32.768KHZ
2SA1577
Q201
X204
C5S1735
ROM
BRST
BSRQ
BRXEN
BSCK
BDATA
CLCONT
EJSW
RESET
FLMOD
VDSENS
DSCSNS
HOME
LEJ
TEMP
TESTIN
SCL
SDA
CPRST
CPRDY
LOEJ
BEJ


C-b
C-a
RF AMP, CD
DIGITAL SE
CPU, USB H
PICKUP UNIT(P10.5)(SERVICE)
E:P5+P10
F:P1+P6
HOLOGRAM UNIT
CN101
F. ACT : Applying positive voltage to FOP.
the lens moves DISC side.
T. ACT : Applying positive voltage to TOP.
the lens moves outer circumference.
SWITCHES:
CD CORE UNIT(S10.5COMP2-iPod)
S901:HOME SWITCH.....ON-OFF
S903:DSCSNS SWITCH....ON-OFF

SWITCHES:
CD CORE UNIT(S10.5COMP2-iPod)
S901:HOME SWITCH.....ON-OFF
S903:DSCSNS SWITCH.....ON-OFF
S904:12EJ SWITCH.....ON-OFF
S905:8EJ SWITCH.....ON-OFF

The underlined indicates the switch position.



10.4 WAVEFORMS

● CD CORE UNIT

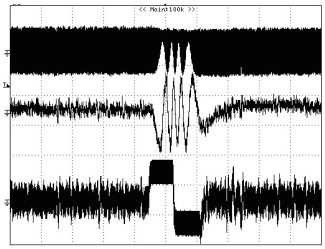
Note : 1. The encircled numbers denote measuring points in the circuit diagram.
2. Reference voltage REFO1(1.65 V)

①DSCSNS 5 V/div 500 ms/div ②8SNS 5 V/div ③12SNS 5 V/div ④LOEJ 5 V/div 12 cm CD Loading operation Ref.: GND Mode: Normal	①DSCSNS 5 V/div 500 ms/div ⑤CLCONT 5 V/div ④LOEJ 5 V/div ⑥VD 10 V/div 12 cm CD Loading operation Ref.: GND Mode: Normal	①DSCSNS 5 V/div 500 ms/div ②8SNS 5 V/div ③12SNS 5 V/div ④LOEJ 5 V/div 8 cm CD Loading operation Ref.: GND Mode: Normal
⑦SIN 1 V/div 1 s/div ⑧CIN 500 mV/div ⑨TIN 1 V/div 12 cm CD-DA setup operation after loading Ref.: REFO Mode: Normal	⑩FIN 200 mV/div 500 ms/div ⑪RFOK(MONI_3) 2 V/div ⑦SIN 2 V/div 12 cm CD-DA Source On setup operation Ref.: REFO Mode: Normal	⑫TE 500 mV/div 200 ms/div ⑬FE 500 mV/div Source On setup operation Ref.: REFO Mode: Normal
⑬FE 500 mV/div 20 ms/div ⑩FIN 500 mV/div ⑫TE 500 mV/div ⑨TIN 500 mV/div CD-DA Play operation Ref.: REFO Mode: Normal	⑭MDX 2 V/div 200 ms/div ⑦SIN 500 mV/div Spindle waveform during play operation Ref.: REFO Mode: Normal	⑭MDX 2 V/div 5 µs/div ⑦SIN 500 mV/div Spindle waveform during play operation (Wider) Ref.: REFO Mode: Normal
⑩FIN 500 mV/div 200 ms/div ⑬FE 500 mV/div Focus Search waveform Ref.: REFO Mode: TEST	⑫TE 500 mV/div 2 ms/div ⑮RFAGC 500 mV/div Track Open waveform Ref.: REFO Mode: TEST	⑮RFAGC 1 V/div 500 µs/div ⑫TE 500 mV/div ⑨TIN 500 mV/div 1 Track Jump waveform Ref.: REFO Mode: TEST

⑮RFAGC	1 V/div	500 µs/div
⑫TE	500 mV/div	
⑨TIN	500 mV/div	

4 Tracks Jump waveform

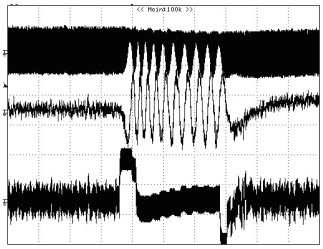
Ref.: REFO
Mode: TEST



⑮RFAGC	1 V/div	500 µs/div
⑫TE	500 mV/div	
⑨TIN	500 mV/div	

10 Tracks Jump waveform

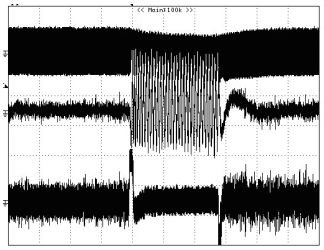
Ref.: REFO
Mode: TEST



⑮RFAGC	1 V/div	2 ms/div
⑫TE	500 mV/div	
⑨TIN	500 mV/div	

32 Tracks Jump waveform

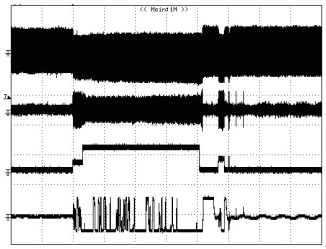
Ref.: REFO
Mode: TEST



⑮RFAGC	1 V/div	200 ms/div
⑫TE	1 V/div	
⑧CIN	1 V/div	
⑦SIN	2 V/div	

Search operation(Outter to Inner)

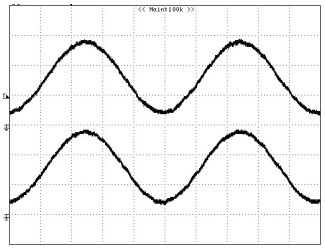
Ref.: REFO
Mode: Normal



⑯LOUT	1 V/div	200 µs/div
⑰ROUT	1 V/div	

Analog audio waveform

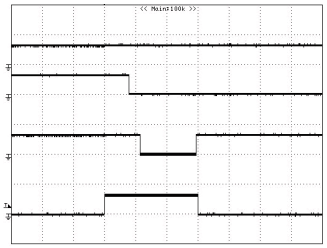
Ref.: AGND
Mode: Normal



①DSCSNS	5 V/div	500 ms/div
②8SNS	5 V/div	
③12SNS	5 V/div	
④LOEJ	5 V/div	

12 cm CD Eject operation

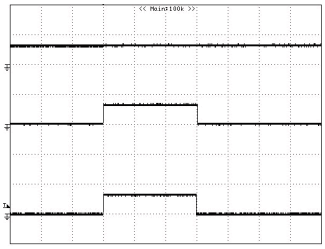
Ref.: GND
Mode: Normal



①DSCSNS	5 V/div	500 ms/div
⑤CLCONT	5 V/div	
④LOEJ	5 V/div	

12 cm CD Eject operation

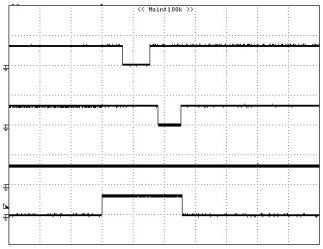
Ref.: GND
Mode: Normal



①DSCSNS	5 V/div	500 ms/div
②8SNS	5 V/div	
③12SNS	5 V/div	
④LOEJ	5 V/div	

8 cm CD Eject operation

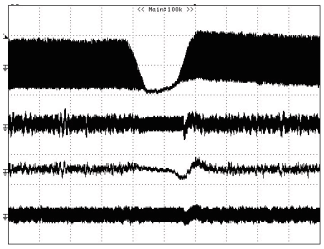
Ref.: GND
Mode: Normal



⑮RFAGC	1 V/div	500 µs/div
⑨TIN	1 V/div	
⑫TE	1 V/div	
⑩FIN	1 V/div	

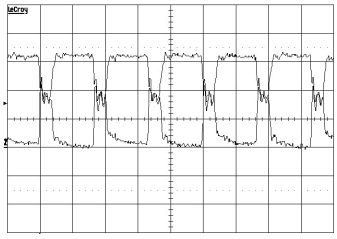
Black dot(800 µm) during play

Ref.: REFO
Mode: Normal



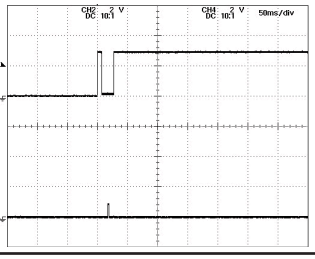
⑱DP	1 V/div	50 ns/div
⑲DM	1 V/div	

USB Play



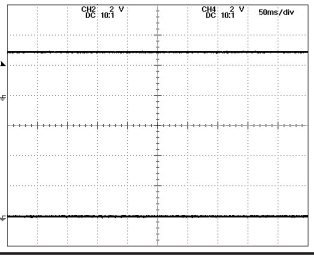
⑱DP	2 V/div	50 ms/div
⑲DM	2 V/div	

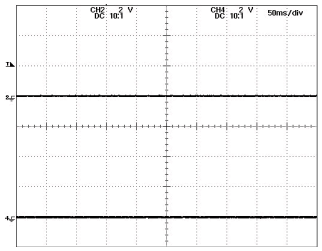
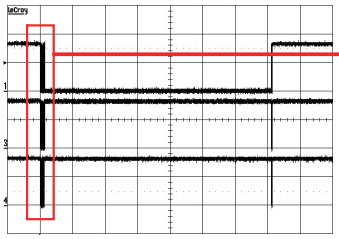
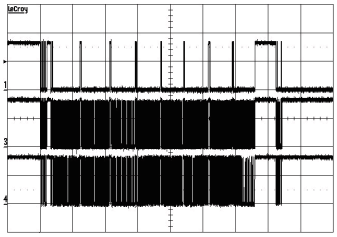
USB device inserting to USB connector.



⑱DP	2 V/div	50 ms/div
⑲DM	2 V/div	

CD Play with USB(iPod) device connecting.



⑱DP 2 V/div 50 ms/div ⑲DM 2 V/div ACC OFF with USB(iPod) device connecting. 	⑳CPRDY 2 V/div 10 s/div ㉑SDA 2 V/div ㉒SCL 2 V/div iPod Authentication Operation 	⑳CPRDY 2 V/div ㉑SDA 2 V/div ㉒SCL 2 V/div iPod Authentication Operation(zoom until 2 s) 

A

B

C

D

E

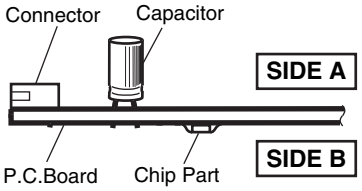
F

11. PCB CONNECTION DIAGRAM

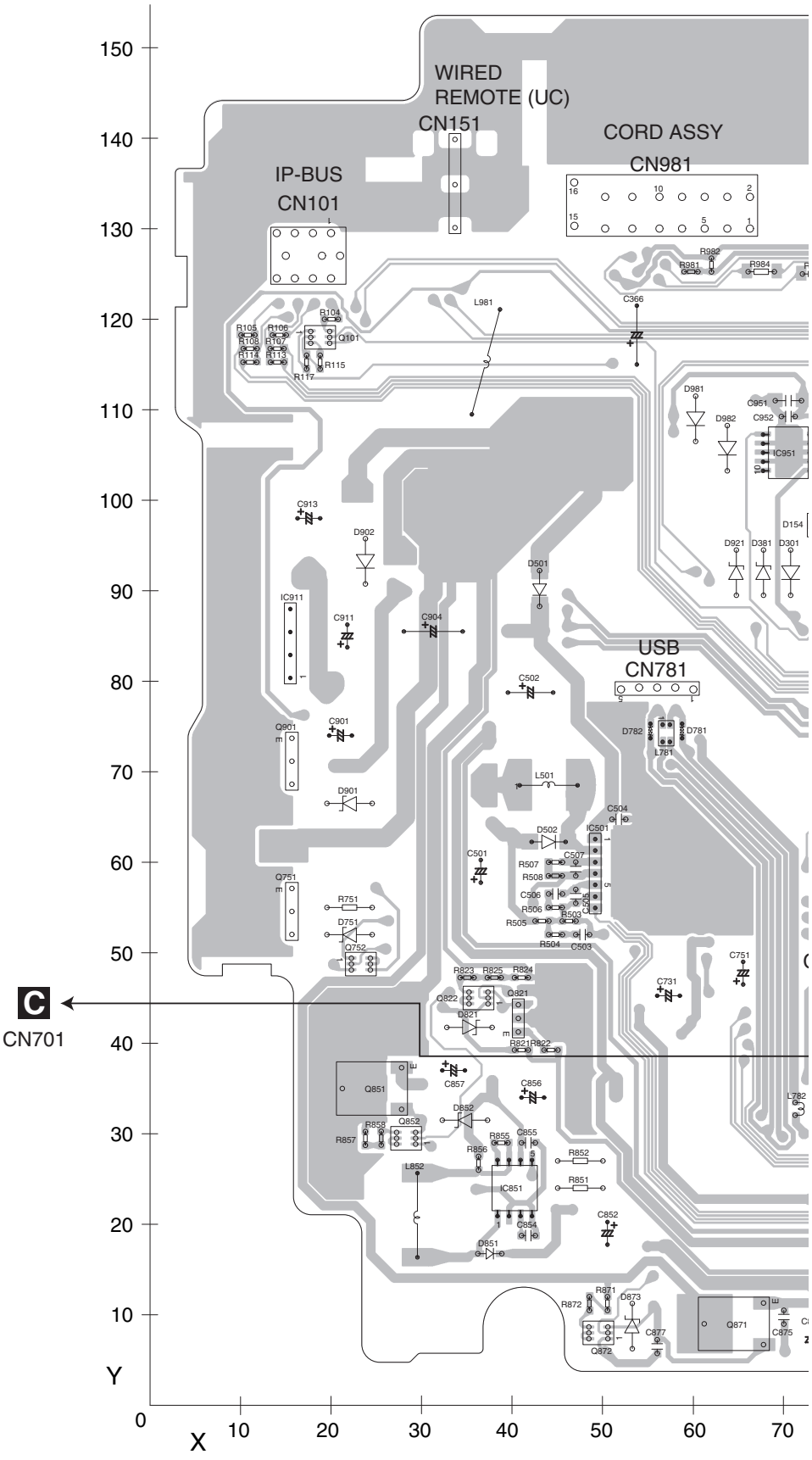
11.1 TUNER AMP UNIT

NOTE FOR PCB DIAGRAMS

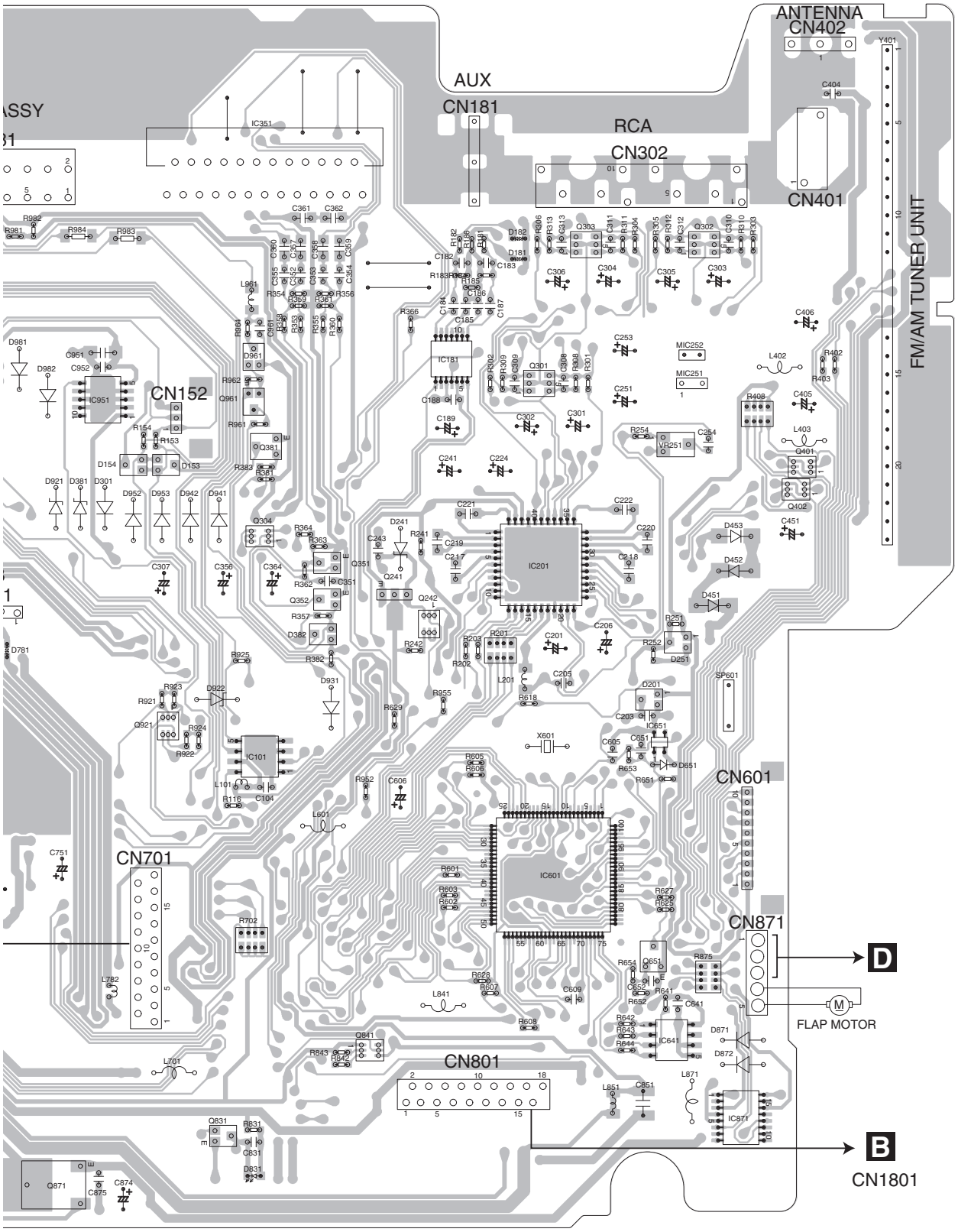
1. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respective destinations, be sure to check with the schematic diagram.
2. Viewpoint of PCB diagrams



A TUNER AMP UNIT



SIDE A


ANTENNA
CN402
AUX
CN181
RCA
CN302
CN401
FM/AM TUNER UNIT
CN152
CN701
CN601
CN871
CN801
CN1801
FLAP MOTOR
IC351
IC181
IC201
IC101
IC601
IC641
IC871
IC651
IC951
Q381
Q871
D
B
FRONT
60 70 80 90 100 110 120 130 140 150 160 170

A

B

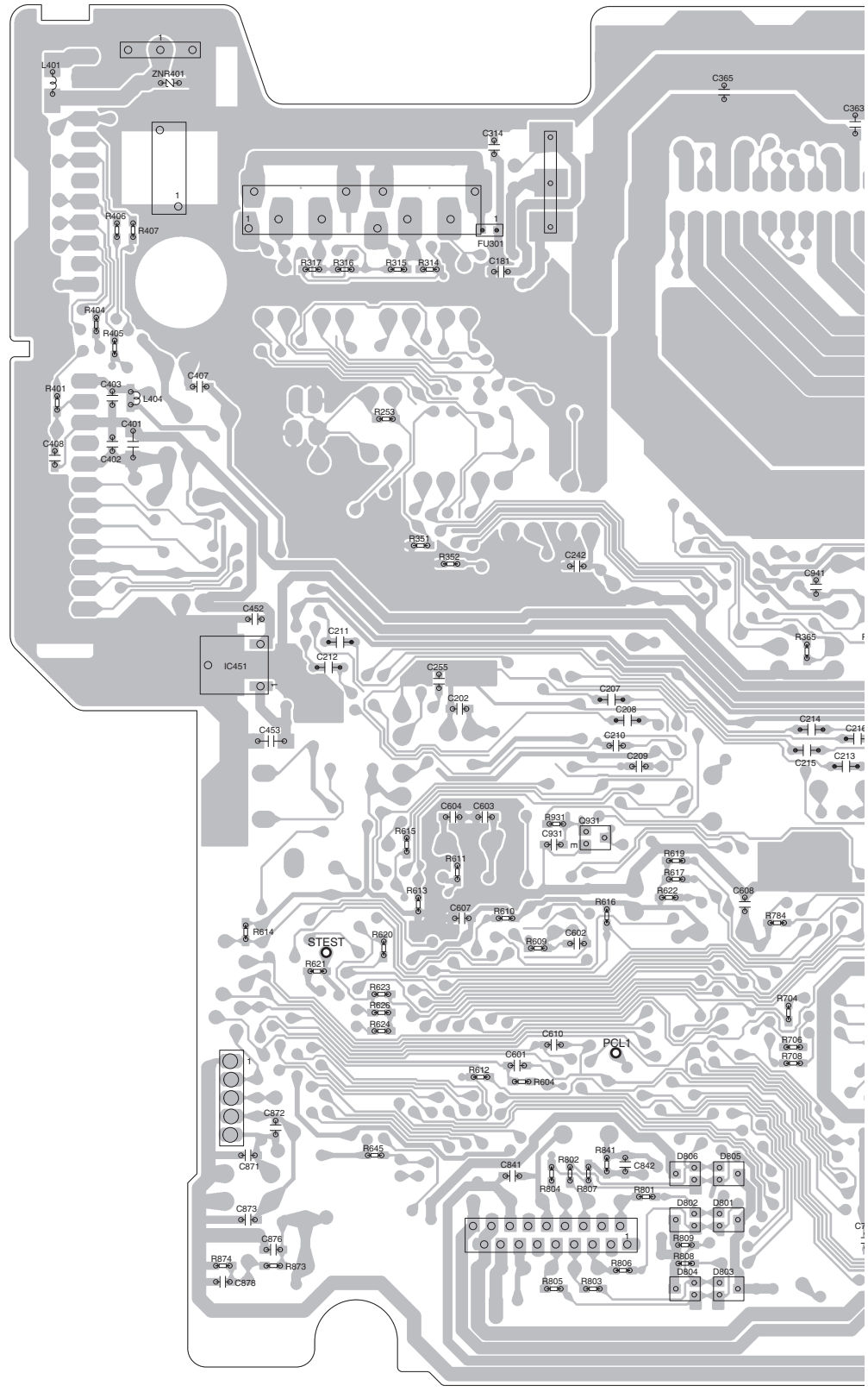
C

D

E

F

A TUNER AMP UNIT



1 2 3 4

A

B

C

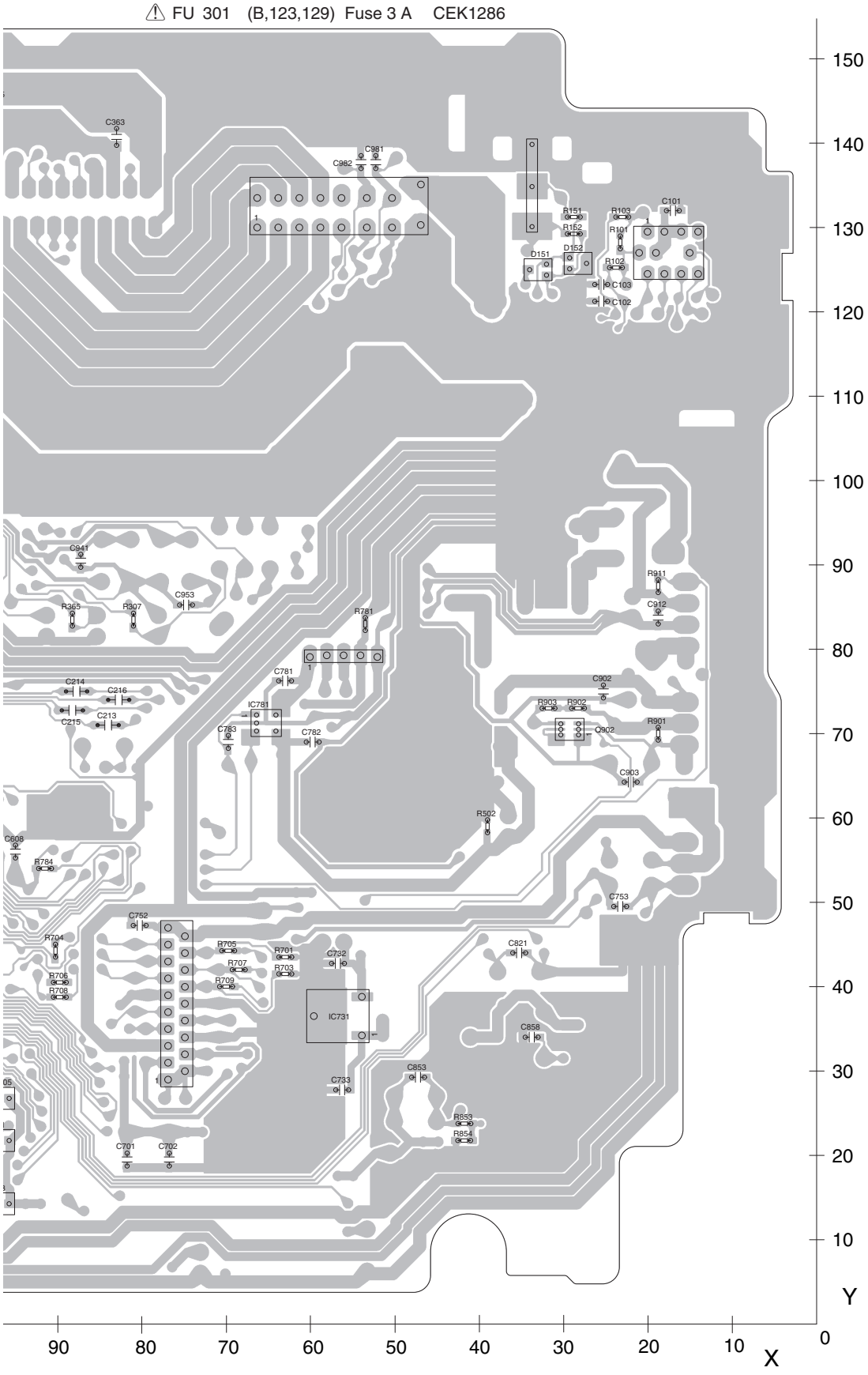
D

E

F

SIDE B

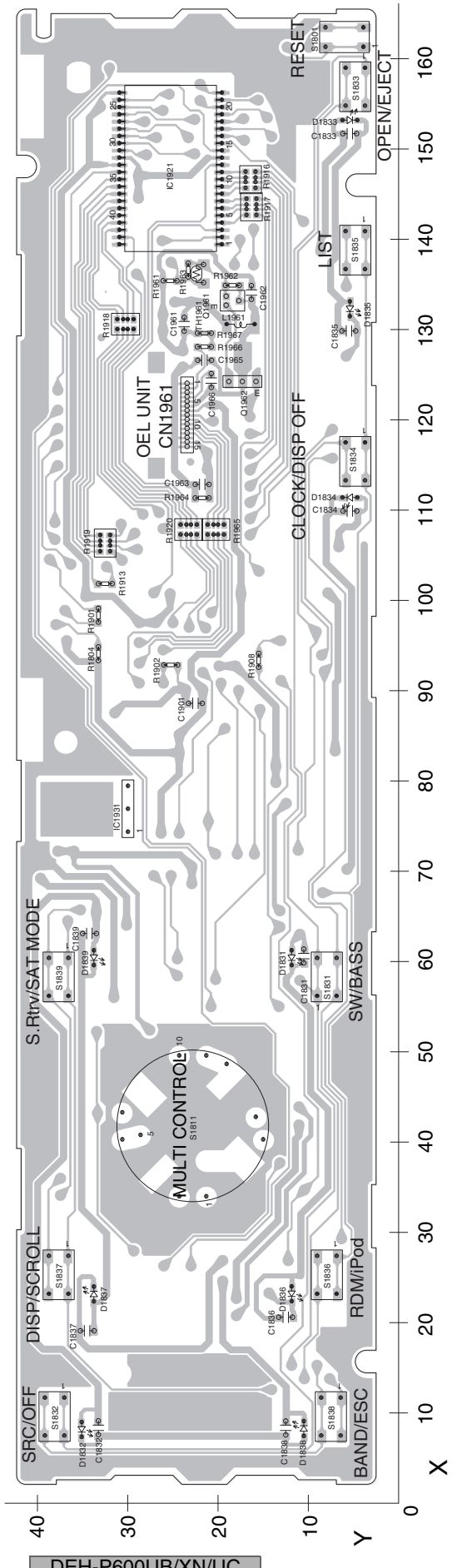
⚠ FU 301 (B,123,129) Fuse 3 A CEK1286



DEH-P600UB/XN/UC

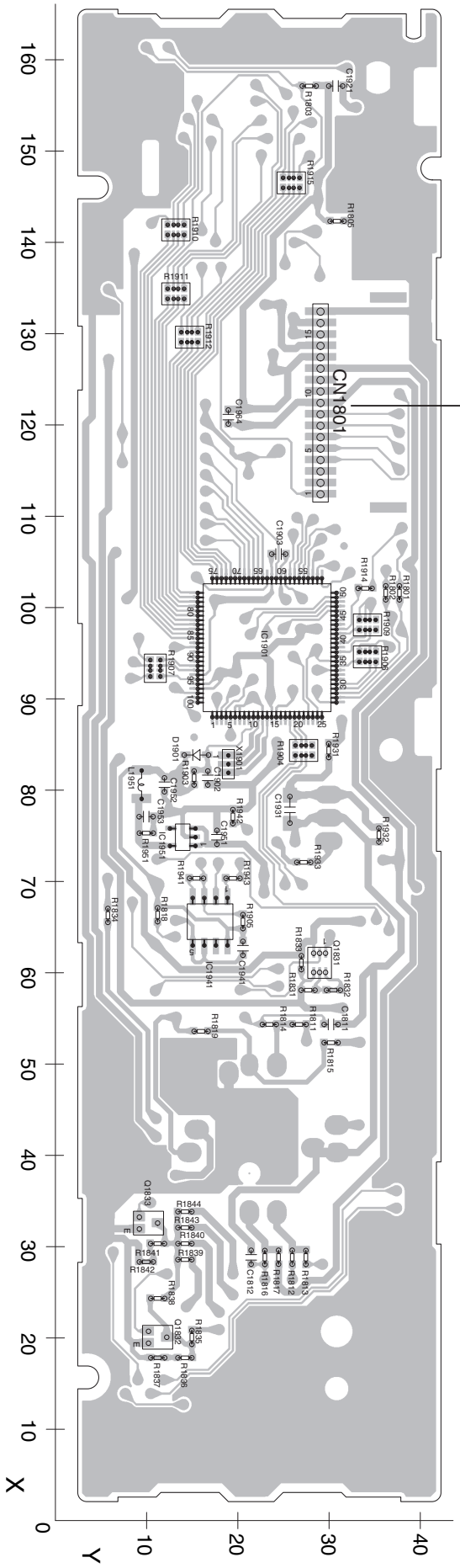
11.2 KEYBOARD UNIT

B KEYBOARD UNIT



B KEYBOARD UNIT

SIDE B



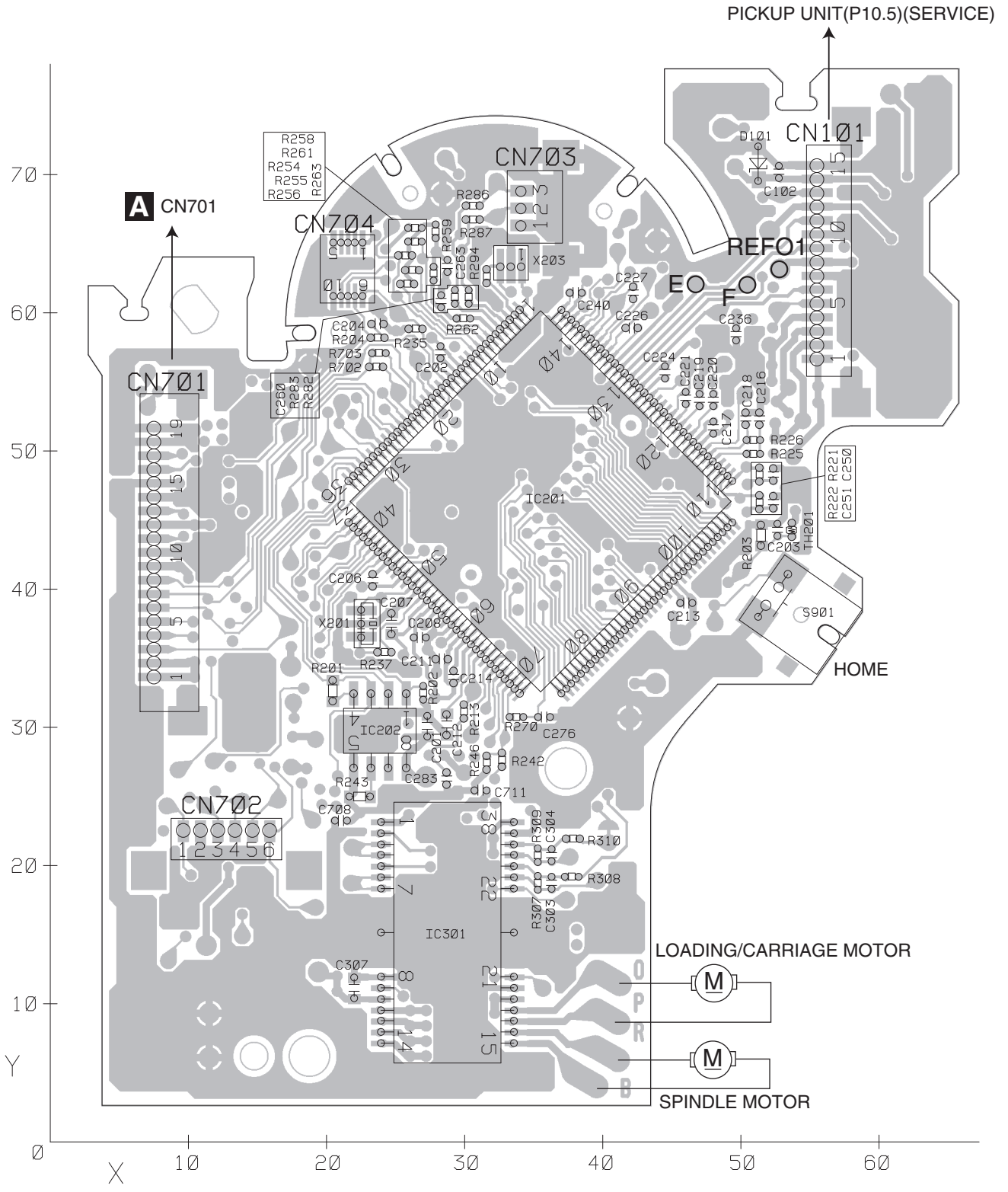
A B C D E F

B

11.3 CD CORE UNIT(S10.5COMP2-iPod)

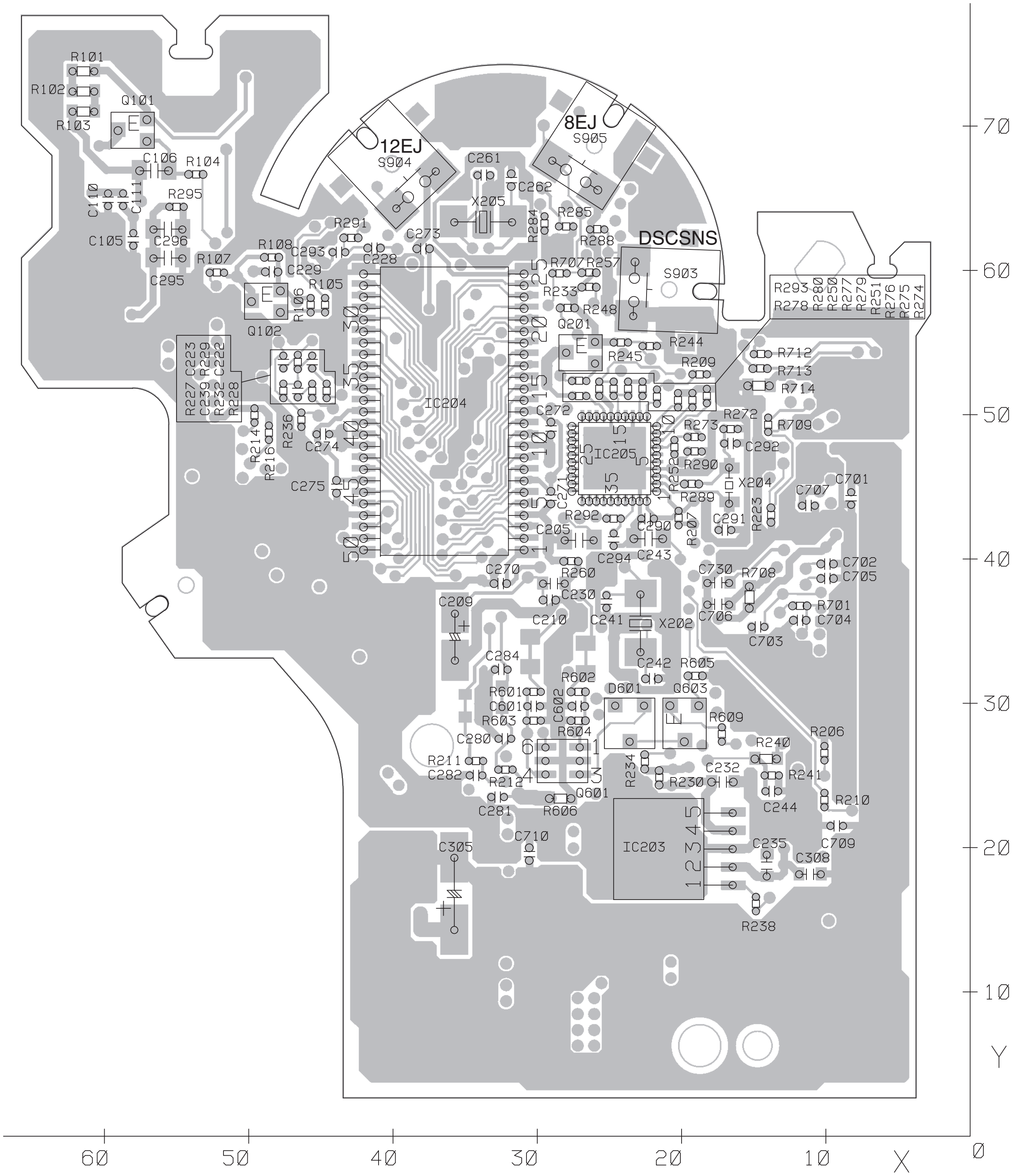
C CD CORE UNIT(S10.5COMP2-iPod)

SIDE A



C CD CORE UNIT(S10.5COMP2-iPod)

SIDE B


12EJ
S904
8EJ
S905
DSCSNS
S903
IC204
IC205
IC203
X205
X204
X202
Q101
Q102
Q201
Q601
Q603
D601
R101
R102
R103
R104
R105
R106
R107
R108
R291
R295
C105
C106
C110
C111
C295
C296
C293
C228
C229
C273
C261
C262
R284
R285
R288
R707
R257
R233
R248
R244
R245
R209
R293
R278
R280
R250
R277
R279
R251
R276
R275
R274
R712
R713
R714
R272
R273
R709
R290
R252
R289
R223
R207
R292
C272
C271
C292
C291
C290
C205
C294
C243
C707
C701
C702
C705
C730
R708
R701
C704
C706
C703
C270
R260
C230
C210
C241
C242
C209
C284
R605
R602
R601
C601
C602
R603
R604
R609
C280
R211
C282
R212
C281
R606
R234
R230
C232
R240
R241
R206
R210
C244
C709
C235
C308
R238
C710
C305
R227
C223
C239
R229
R232
C222
R228
R214
R216
R236
C274
C275
70
60
50
40
30
20
10
Y
60
50
40
30
20
10
X
0

11.4 SWITCH UNIT

A

B

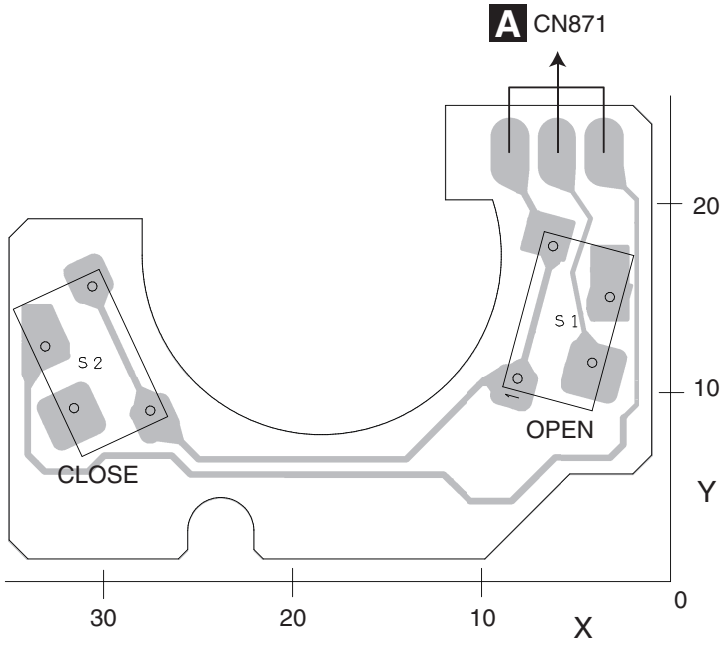
C

D

E

F

D SWITCH UNIT



12. ELECTRICAL PARTS LIST

NOTE:

- *Parts whose parts numbers are omitted are subject to being not supplied.*
- *The part numbers shown below indicate chip components.*

  Chip Resistor

  RS1/◯S◯◯◯J,RS1/◯◯S◯◯◯J

  Chip Capacitor (except for CQS.....)

  CKS....., CCS....., CSZS.....
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

Circuit Symbol and No. **Part No.**

Unit Number : CWN3149(P600UB)
Unit Number : CWN3148(P6000UB)
Unit Number : CWN3150(P6050UB)
Unit Name : Tuner Amp Unit
Unit Number : (P600UB)
Unit Number : (P6000UB)
Unit Number : (P6050UB)
Unit Name : Keyboard Unit
Unit Number : CWX3526
Unit Name : CD Core Unit
(S10.5COMP2-iPod)
Unit Number : CWS1389
Unit Name : Switch Unit

A

Unit Number : CWN3149(P600UB)
Unit Number : CWN3148(P6000UB)
Unit Number : CWN3150(P6050UB)
Unit Name : Tuner Amp Unit

MISCELLANEOUS

Circuit Symbol and No.		Part No.
IC 101	(A,90,62) IC	HA12241FP
IC 181	(A,113,110) IC	NJM2794V
IC 201	(A,124,85) IC	PML017A
IC 351	(A,90,136) IC	PAL007C
IC 451	(B,152,82) IC	NJM2885DL1-33
IC 501	(A,54,59) Regulator IC	BD9781HFP
IC 601	(A,126,47) IC	PEG430B8
IC 651	(A,139,63) IC	S-80835CNNB-B8U
IC 731	(B,59,37) IC	NJM2885DL1-33
IC 781	(B,65,71) IC	R5523N001B
IC 851	(A,40,24) IC	NJM2360M
IC 871	(A,149,17) IC	BA6288FS
IC 911	(A,16,80) IC	NJM2388F84
IC 951	(A,71,105) IC(P600UB)	TPD1018F
Q 101	(A,19,118) Transistor	UMF23N
Q 241	(A,106,80) Transistor	2SD1767
Q 242	(A,111,78) Transistor	UMD3N
Q 301	(A,124,107) Transistor	IMH23
Q 302	(A,144,124) Transistor	IMH23
Q 303	(A,130,124) Transistor	IMH23
Q 304	(A,90,89) Transistor	UMD3N
Q 351	(A,98,85) Chip Transistor	DTC114EUA
Q 352	(A,98,81) Chip Transistor	DTC114EUA
Q 381	(A,91,100) Transistor	2SC3052-12
Q 651	(A,138,37) Transistor	2SC3052-12
Q 751	(A,15,55) Transistor	2SD2396
Q 752	(A,23,49) Transistor	UMD3N
Q 821	(A,43,43) Transistor	2SD1767
Q 822	(A,36,45) Transistor	UMD3N
Q 831	(A,85,15) Chip Transistor	DTC114EUA
Q 841	(A,103,26) Transistor	UMF23N
Q 851	(A,23,35) Transistor	2SD1760F5
Q 852	(A,28,30) Transistor	UMD3N
Q 871	(A,63,9) Transistor	2SD1760F5
Q 872	(A,50,8) Transistor	UMD3N
Q 901	(A,15,71) Transistor	2SD2396
Q 902	(B,29,71) Transistor	UMD3N
Q 921	(A,79,65) Transistor	UMX1N
Q 931	(B,111,63) Chip Transistor	DTC114EUA
Q 961	(A,89,105) Transistor	2SA1576A
D 181	(A,122,123) Diode	MALS068X
D 182	(A,122,125) Diode	MALS068X
D 201	(A,138,69) Diode Network	DA204U
D 241	(A,107,87) Diode	HZS12L(B1)
D 301	(A,71,92) Diode	1SS133
D 381	(A,68,92) Diode	HZS9L(A3)
D 382	(A,98,77) Diode	DAN202U
D 453	(A,148,89) Diode	1SR154-400
D 501	(A,43,90) Diode	1SR154-400
D 502	(A,44,62) Diode	RB060L-40
D 751	(A,22,52) Diode	HZS7L(C3)
D 801	(B,97,22) Diode	DAP202U

Circuit Symbol and No.		Part No.
D 802	(B,102,22) Diode	DAN202U
D 803	(B,97,14) Diode	DAP202U
D 804	(B,102,14) Diode	DAN202U
D 805	(B,97,27) Diode	DAP202U
D 806	(B,102,27) Diode	DAN202U
D 821	(A,35,42) Diode	HZS11L(A1)
D 831	(A,89,10) LED	SMLE12BC7T(NP)
D 851	(A,38,17) Diode	RB551V-30
D 852	(A,35,32) Diode	HZS11L(A1)
D 871	(A,149,27) Diode	1SS133
D 872	(A,149,24) Diode	1SS133
D 873	(A,53,9) Diode	HZS7L(B3)
D 901	(A,22,67) Diode	HZS6L(B1)
D 902	(A,24,93) Diode	MPG06G-6415G50
D 921	(A,65,92) Diode	HZS7L(C3)
D 922	(A,85,69) Diode	HZS7L(B2)
D 931	(A,99,68) Diode	MPG06G-6415G50
D 941	(A,85,91) Diode(P6000UB, P6050)	MPG06G-6415G50
D 942	(A,81,91) Diode(P6000UB, P6050)	MPG06G-6415G50
D 952	(A,74,91) Diode(P600UB)	MPG06G-6415G50
D 953	(A,78,91) Diode(P600UB)	MPG06G-6415G50
D 961	(A,89,111) Diode	DAN202U
D 981	(A,60,109) Diode	MPG06G-6415G50
D 982	(A,64,106) Diode	MPG06G-6415G50
ZNR401	(B,158,145) Surge Protector	IMSA-6801-01Y901
L 201	(A,122,71) Inductor	LCTAW2R2J2520
L 401	(B,170,145) Inductor	LCTAW220J2520
L 402	(A,154,109) Inductor	LAU1R0K
L 403	(A,157,100) Inductor	LAU2R2K
L 501	(A,44,69) Inductor	CTH1385
L 601	(A,98,53) Ferri-Inductor	LAU100K
L 781	(A,57,74) Inductor	CTF1713
L 782	(A,71,33) Inductor	CTF1379
L 841	(A,112,31) Ferri-Inductor	LAU100K
L 852	(A,30,21) Inductor	CTF1660
L 961	(A,89,118) Inductor	LCTAW2R2J2520
L 981	(A,35,109) Choke Coil 600 µH	CTH1280
X 601	(A,125,63) Crystal Resonator 15.000 MHz	CSS1653
⚠FU301	(B,123,129) Fuse 3 A	CEK1286
⚠	Fuse 10A	YEK5001
SP601	(A,147,68) Buzzer	CPV1062
Y 401	(A,167,148) FM/AM Tuner Unit	CWE2098

RESISTORS

R 101	(B,23,128)	RS1/16S620J
R 102	(B,24,125)	RS1/16S101J
R 103	(B,23,131)	RS1/16S101J
R 104	(A,20,120)	RS1/16S222J
R 105	(A,11,118)	RS1/16S181J
R 106	(A,14,118)	RS1/16S181J
R 107	(A,14,117)	RS1/16S223J
R 108	(A,11,117)	RS1/16S223J
R 113	(A,14,115)	RS1/10SR102J
R 114	(A,11,115)	RS1/10SR102J
R 115	(A,19,115)	RS1/16S562J
R 116	(A,87,56)	RS1/10SR102J
R 117	(A,17,115)	RS1/16S332J
R 151	(B,29,131) (P600UB, P6000UB)	RS1/16S102J
R 152	(B,29,129) (P600UB, P6000UB)	RS1/16S102J
R 181	(A,117,124)	RS1/16S181J
R 182	(A,114,124)	RS1/16S181J
R 183	(A,115,121)	RS1/16S223J
R 184	(A,118,121)	RS1/16S223J
R 201	(A,119,75)	RAB4C102J
R 202	(A,115,75)	RS1/16S101J
R 203	(A,117,75)	RS1/16S101J
R 242	(A,109,75)	RS1/16S182J
R 301	(A,130,107)	RS1/16S390J
R 302	(A,118,107)	RS1/16S390J
R 303	(A,150,124)	RS1/16S390J
R 304	(A,136,124)	RS1/16S390J
R 305	(A,138,124)	RS1/16S390J
R 306	(A,124,124)	RS1/16S390J
R 307	(B,81,84)	RS1/16S102J
R 308	(A,129,107)	RS1/16S223J
R 309	(A,120,107)	RS1/16S223J
R 310	(A,149,124)	RS1/16S223J
R 311	(A,134,124)	RS1/16S223J
R 312	(A,140,124)	RS1/16S223J
R 313	(A,125,124)	RS1/16S223J
R 314	(B,129,125)	RS1/16S0R0J
R 316	(B,139,125)	RS1/16S0R0J
R 351	(B,130,95)	RS1/16S472J
R 352	(B,127,93)	RS1/16S472J
R 353	(A,95,115)	RS1/16S182J
R 354	(A,95,118)	RS1/16S272J
R 355	(A,98,115)	RS1/16S182J
R 356	(A,98,118)	RS1/16S272J
R 357	(A,98,79)	RS1/16S472J
R 358	(A,93,115)	RS1/16S182J
R 359	(A,95,117)	RS1/16S272J
R 360	(A,100,115)	RS1/16S182J
R 361	(A,98,117)	RS1/16S272J
R 362	(A,95,84)	RS1/16S103J
R 363	(A,97,87)	RS1/16S103J
R 364	(A,95,89)	RS1/16S331J
R 365	(B,88,84)	RS1/16S101J
R 366	(A,108,115)	RS1/16S103J
R 381	(A,91,96)	RS1/16S473J
R 382	(A,99,74)	RS1/16S223J
R 383	(A,91,97)	RS1/16S104J
R 401	(B,170,111)	RS1/16S681J
R 403	(A,159,110)	RS1/16S681J
R 405	(B,164,117)	RS1/16S681J
R 406	(B,163,129)	RS1/16S681J
R 407	(B,162,129)	RS1/16S681J
R 502	(B,39,59)	RS1/10SR471J
R 503	(A,46,54)	RS1/16S3302F
R 504	(A,45,52)	RS1/16S333J
R 505	(A,43,54)	RS1/16S8201F
R 506	(A,45,55)	RS1/16S683J
R 507	(A,45,60)	RS1/16S823J
R 601	(A,113,47)	RS1/16S104J
R 602	(A,113,43)	RS1/16S104J
R 603	(A,113,45)	RS1/10SR102J
R 604	(B,119,37)	RS1/16S681J
R 605	(A,116,61)	RS1/16S472J
R 606	(A,116,59)	RS1/16S472J
R 607	(A,118,33)	RS1/16S104J

Circuit Symbol and No.			Part No.
R 608	(A,123,28)		RS1/16S104J
R 609	(B,118,51)		RS1/16S222J
R 610	(B,121,55)		RS1/16S473J
R 611	(B,126,60)		RS1/16S0R0J
R 612	(B,124,37)		RS1/16S472J
R 613	(B,131,56)		RS1/16S473J
R 614	(B,149,53)		RS1/16S104J
R 615	(B,132,63)		RS1/16S102J
R 616	(B,110,55)		RS1/16S104J
R 617	(B,103,59)		RS1/16S104J
R 618	(A,123,68)		RS1/10SR102J
R 619	(B,103,61)		RS1/16S104J
R 620	(B,134,51)		RS1/16S103J
R 621	(B,142,49)		RS1/16S473J
R 622	(B,103,57)		RS1/16S223J
R 623	(B,135,46)		RS1/16S104J
R 624	(B,135,42)	(P6050UB)	RS1/16S104J
R 625	(A,140,43)	(P600UB, P6000UB)	RS1/16S0R0J
R 626	(B,135,44)	(P6000UB)	RS1/16S104J
R 627	(A,140,44)	(P600UB)	RS1/16S0R0J
R 628	(A,117,34)		RS1/16S104J
R 629	(A,106,66)		RS1/16S473J
R 641	(A,140,31)		RS1/16S104J
R 651	(A,140,59)		RS1/16S183J
R 652	(A,137,33)		RS1/16S473J
R 653	(A,135,62)		RS1/10SR102J
R 654	(A,136,35)		RS1/10SR102J
R 701	(B,63,44)		RS1/16S473J
R 702	(A,89,39)		RAB4C472J
R 703	(B,63,42)		RS1/16S104J
R 704	(B,90,44)		RS1/16S221J
R 705	(B,70,44)		RS1/16S221J
R 706	(B,90,41)		RS1/16S221J
R 707	(B,69,42)		RS1/16S221J
R 708	(B,90,39)		RS1/16S221J
R 709	(B,70,40)		RS1/16S102J
R 751	(A,22,55)		RD1/4PU102J
R 784	(B,92,54)		RS1/16S103J
R 801	(B,106,24)		RS1/16S222J
R 802	(B,114,27)		RS1/16S222J
R 803	(B,112,14)		RS1/16S222J
R 804	(B,116,27)		RS1/16S222J
R 805	(B,116,14)		RS1/16S222J
R 806	(B,108,16)		RS1/16S222J
R 807	(B,112,27)		RS1/16S104J
R 808	(B,102,17)		RS1/16S104J
R 821	(A,41,39)		RS1/16S473J
R 822	(A,44,39)		RS1/16S1R0J
R 824	(A,41,47)		RS1/10SR561J
R 831	(A,89,16)		RS1/16S331J
R 842	(A,100,24)		RS1/10SR102J
R 843	(A,100,25)		RS1/16S472J
R 851	(A,48,24)		RD1/4PU272J
R 853	(B,42,24)		RS1/16S101J
R 854	(B,42,22)		RS1/16S101J
R 855	(A,39,29)		RS1/10SR821J
R 856	(A,36,27)		RS1/16S1R0J
R 857	(A,24,30)		RS1/10SR561J
R 871	(A,51,11)		RS1/10SR102J
R 875	(A,145,35)		RAB4C102J

Circuit Symbol and No.			Part No.
R 901	(B,19,70)		RS1/16S223J
R 902	(B,28,73)		RS1/16S681J
R 903	(B,32,73)		RS1/16S681J
R 911	(B,19,88)		RS1/16S473J
R 921	(A,78,69)		RS1/16S104J
R 922	(A,81,64)		RS1/16S103J
R 923	(A,79,69)		RS1/16S473J
R 924	(A,82,64)		RS1/16S223J
R 925	(A,88,73)		RS1/16S472J
R 931	(B,116,65)		RS1/16S103J
R 955	(A,112,68)	(P600UB)	RS1/16S103J
R 961	(A,90,102)		RS1/10SR102J
R 962	(A,89,108)		RS1/16S472J
R 964	(A,88,114)		RS1/16S153J
R 982	(A,62,126)	(P600UB)	RS1/16S0R0J
R 983	(A,74,125)		RS1/4SA102J
R 984	(A,68,125)		RS1/4SA102J

CAPACITORS

C 101	(B,17,132)	CKSRYB104K16
C 102	(B,26,121)	CKSRYB102K50
C 103	(B,26,123)	CKSRYB102K50
C 181	(B,122,125)	CKSRYB104K16
C 182	(A,115,122)	CKSRYB472K50
C 183	(A,118,122)	CKSRYB472K50
C 184	(A,114,117)	CKSRYB105K10
C 185	(A,115,117)	CKSRYB105K10
C 186	(A,117,117)	CKSRYB105K10
C 187	(A,118,117)	CKSRYB105K10
C 188	(A,114,105)	CKSRYB104K16
C 189	(A,113,102)	CEJQ220M16
C 201	(A,126,75)	CEJQ470M16
C 202	(B,126,77)	CKSRYB104K16
C 203	(A,137,67)	CCSRCH470J50
C 205	(A,127,71)	CKSRYB474K10
C 206	(A,132,76)	CEJQ100M16
C 207	(B,110,78)	CKSRYB105K10
C 208	(B,108,76)	CKSRYB105K10
C 209	(B,107,71)	CKSRYB105K10
C 210	(B,109,73)	CKSRYB105K10
C 211	(B,139,85)	CKSRYB224K16
C 212	(B,140,82)	CKSRYB224K16
C 213	(B,84,71)	CKSRYB105K10
C 214	(B,88,75)	CKSRYB105K10
C 215	(B,88,73)	CKSRYB105K10
C 216	(B,83,74)	CKSRYB105K10
C 217	(A,114,84)	CKSQYB475K10
C 218	(A,135,84)	CKSQYB475K10
C 219	(A,112,88)	CKSQYB475K10
C 220	(A,137,88)	CKSQYB475K10
C 221	(A,115,91)	CKSQYB475K10
C 222	(A,135,92)	CKSQYB475K10
C 224	(A,119,97)	CEJQ100M16
C 241	(A,113,97)	CEJQ470M16
C 242	(B,113,93)	CKSRYB104K16
C 243	(A,104,87)	CKSRYB224K16
C 255	(B,128,80)	CKSRYB104K16
C 301	(A,129,102)	CEJQ100M16
C 302	(A,123,102)	CEJQ100M16

Circuit Symbol and No.		Part No.
C 303	(A,146,120)	CEJQ100M16
C 304	(A,133,120)	CEJQ100M16
C 305	(A,140,120)	CEJQ100M16
C 306	(A,126,120)	CEJQ100M16
C 307	(A,78,83)	CEJQ220M16
C 352	(A,95,121)	CKSRYB474K10
C 353	(A,98,121)	CKSRYB474K10
C 354	(A,100,121)	CKSRYB474K10
C 355	(A,93,121)	CKSRYB474K10
C 356	(A,85,83)	CEJQ330M10
C 357	(A,95,124)	CKSQYB474K16
C 358	(A,98,124)	CKSQYB474K16
C 359	(A,100,124)	CKSQYB474K16
C 360	(A,93,124)	CKSQYB474K16
C 361	(A,95,128)	CKSQYB225K10
C 362	(A,99,128)	CKSQYB225K10
C 364	(A,91,83)	CEJQ100M16
C 365	(B,97,144)	CKSRYB104K16
C 366	(A,54,118) 3 300 µF/16 V	CCH1486
C 402	(B,164,106)	CKSRYB103K50
C 403	(B,164,111)	CKSRYB103K50
C 404	(A,160,143)	CKSRYB103K50
C 405	(A,157,105)	CEJQ470M6R3
C 406	(A,157,115)	CEJQ101M16
C 451	(A,155,89)	CEJQ220M16
C 452	(B,148,87)	CKSRYB103K50
C 453	(B,147,74)	CKSYB475K16
C 501	(A,37,59) 100 µF/6.3 V	CCH1804
C 502	(A,42,79)	CEJQ221M16
C 503	(A,48,52)	CKSRYB221K50
C 504	(A,52,65)	CKSRYB105K16
C 506	(A,45,57)	CKSRYB102K50
C 507	(A,47,59)	CKSRYB104K16
C 603	(B,123,66)	CCSRCH180J50
C 604	(B,127,66)	CCSRCH180J50
C 606	(A,107,57)	CEJQ100M16
C 607	(B,126,55)	CKSRYB103K50
C 651	(A,137,62)	CKSRYB105K10
C 652	(A,138,34)	CKSRYB104K16
C 701	(B,82,20)	CKSRYB104K16
C 731	(A,57,45)	CEJQ220M16
C 732	(B,57,43)	CKSRYB103K50
C 733	(B,56,28)	CKSRYB474K10
C 751	(A,66,48)	CEJQ101M16
C 752	(B,80,47)	CKSRYB102K50
C 753	(B,23,50)	CKSRYB473K50
C 781	(B,63,76)	CKSRYB104K16
C 782	(B,60,69)	CKSRYB104K16
C 821	(B,35,44)	CKSRYB473K50
C 841	(B,120,27)	CKSRYB473K50
C 852	(A,51,19)	CEJQ470M25
C 853	(B,47,29)	CKSRYB103K50
C 854	(A,42,19)	CCSRCH331J50
C 855	(A,42,29)	CKSRYB104K16
C 856	(A,42,34)	CEJQ101M16
C 858	(B,34,34)	CKSRYB104K16
C 871	(B,149,29)	CCSRCH101J50
C 872	(B,146,32)	CKSRYB102K50
C 873	(B,149,22)	CCSRCH101J50
C 874	(A,73,7)	CEJQ220M16
C 875	(A,70,10)	CKSRYB104K16
C 877	(A,56,7)	CKSRYB224K16
C 901	(A,21,74)	CEHAR220M16
C 902	(B,25,75)	CKSRYB104K16
C 903	(B,22,64)	CKSRYB103K50
C 904	(A,31,86) 1 500 µ/16 V	CCH1201
C 911	(A,22,85)	CEHAS101M10
C 912	(B,19,84)	CKSRYB103K50
C 913	(A,18,98)	CEJQ101M16
C 931	(B,116,63)	CKSRYB105K16
C 941	(B,87,91) (P6000UB,P6050UB)	CKSRYB473K50
C 952	(A,71,109) (P600UB)	CKSRYB103K50
C 953	(B,75,85) (P600UB)	CKSRYB473K50
C 961	(A,90,114)	CKSRYB104K16
C 981	(B,52,138)	CKSRYB104K16
C 982	(B,54,138)	CKSRYB104K16

B

Unit Number : (P600UB)
Unit Number : (P6000UB)
Unit Number : (P6050UB)
Unit Name : Keyboard Unit

MISCELLANEOUS

IC 1901	(B,96,23) IC	PEG432A
IC 1921	(A,148,25) IC(P600UB)	PD8178A
	(A,148,25) IC(P6000UB)	PD8177A
	(A,148,25) IC(P6050UB)	PD8180A
IC 1931	(A,77,35) IC	GP1UX31RK
IC 1951	(B,75,14) IC	S-1200B33-M5
Q 1831	(B,61,29) Transistor	UMD3N
Q 1832	(B,20,11) Digital Transistor	DTC143EUA
Q 1833	(B,33,10) Transistor	DTC123JU
Q 1961	(A,133,18) Transistor	2SC4617
Q 1962	(A,126,17) Transistor	2SD1664
D 1831	(A,60,12) LED	SMLE12BC7T(NP)
D 1832	(A,8,35) LED	SMLE12BC7T(NP)
D 1833	(A,153,5) LED	SMLE12BC7T(NP)
D 1834	(A,111,5) LED	SMLE12BC7T(NP)
D 1835	(A,132,5) LED	SMLE12BC7T(NP)
D 1836	(A,23,12) LED	SMLE12BC7T(NP)
D 1837	(A,23,34) LED	SMLE12BC7T(NP)
D 1838	(A,8,11) LED	SMLE12BC7T(NP)
D 1839	(A,60,34) LED	SMLE12BC7T(NP)
D 1901	(B,84,16) Diode	1SS355
L 1951	(B,81,10) Inductor	CTF1617
L 1961	(A,131,18) Inductor	CTF1617
TH1961	(A,136,22) Thermistor	CCX1037
X 1901	(B,83,19) Ceramic Resonator 16.000 MHz	CSS1616
S 1801	(A,162,6) Push Switch	CSG1155
S 1811	(A,42,23) Switch (MULTI CONTROL)	CSX1120
S 1831	(A,58,8) Push Switch	CSG1155
S 1832	(A,10,38) Push Switch	CSG1155
S 1833	(A,157,5) Push Switch	CSG1155
S 1834	(A,115,5) Push Switch	CSG1155
S 1835	(A,139,5) Push Switch	CSG1155
S 1836	(A,25,8) Push Switch	CSG1155
S 1837	(A,25,38) Push Switch	CSG1155
S 1838	(A,10,8) Push Switch	CSG1155

Circuit Symbol and No.			Part No.
S 1839	(A,58,38)	Push Switch	CSG1155

RESISTORS

R 1801	(B,102,38)	RS1/16S222J
R 1802	(B,102,36)	RS1/16S222J
R 1803	(B,157,28)	RS1/16S333J
R 1811	(B,54,27)	RS1/16S103J
R 1812	(B,29,26)	RS1/16S333J
R 1813	(B,29,28)	RS1/16S103J
R 1814	(B,54,24)	RS1/16S102J
R 1815	(B,52,30)	RS1/16S332J
R 1816	(B,29,23)	RS1/16S102J
R 1818	(B,66,11)	RS1/16S103J
R 1819	(B,54,16)	RS1/16S222J
R 1834	(B,66,6)	RS1/16S821J
R 1835	(B,20,15)	RS1/16S821J
R 1836	(B,18,14)	RS1/16S152J
R 1839	(B,29,14)	RS1/16S681J
R 1840	(B,30,14)	RS1/16S681J
R 1841	(B,30,11)	RS1/16S271J
R 1843	(B,32,14)	RS1/16S681J
R 1844	(B,34,14)	RS1/16S681J
R 1901	(A,98,33)	RS1/16S103J
R 1902	(A,93,25)	RS1/16S473J
R 1903	(B,81,15)	RS1/16S154J
R 1904	(B,84,27)	RAB4CQ102J
R 1905	(B,66,21)	RS1/16S104J
R 1906	(B,95,34)	RAB4CQ473J
R 1907	(B,93,11)	RAB4CQ102J
R 1908	(A,93,16)	RS1/16S221J
R 1909	(B,98,34)	RAB4CQ473J
R 1910	(B,141,13)	RAB4CQ101J
R 1911	(B,134,13)	RAB4CQ101J
R 1912	(B,130,15)	RAB4CQ101J
R 1913	(A,102,33)	RS1/16S101J
R 1914	(B,102,34)	RS1/16S101J
R 1915	(B,147,26)	RAB4CQ101J
R 1916	(A,147,16)	RAB4CQ101J
R 1917	(A,144,16)	RAB4CQ101J
R 1918	(A,131,30)	RAB4CQ101J
R 1919	(A,106,33)	RAB4CQ101J
R 1920	(A,108,23)	RAB4CQ101J
R 1931	(B,84,30)	RS1/16S101J
R 1932	(B,75,36)	RS1/16S103J
R 1933	(B,72,27)	RS1/16S2R2J
R 1951	(B,75,10)	RS1/16S222J
R 1961	(A,135,25)	RS1/16S333J
R 1962	(A,135,18)	RS1/16S183J
R 1963	(A,137,23)	RS1/16S563J
R 1964	(A,111,22)	RS1/16S392J
R 1965	(A,108,20)	RAB4CQ101J
R 1966	(A,128,22)	RS1/16S5101D

CAPACITORS

C 1901	(A,89,23)	CKSRYB103K50
C 1902	(B,81,17)	CKSRYF104Z25
C 1903	(B,106,25)	CKSRYB103K50
C 1921	(B,157,31)	CKSRYB103K50
C 1931	(B,78,26)	CKSYB106K6R3
C 1951	(B,75,18)	CKSRYB105K10
C 1952	(B,77,10)	CKSRYB105K10
C 1953	(B,81,12)	CKSRYB105K10
C 1963	(A,113,22)	CKSRYB104K16
C 1964	(B,121,19)	CKSRYB104K16
C 1965	(A,127,22)	CKSRYB104K25
C 1966	(A,124,21)	CKSRYB104K25

C

Unit Number : CWX3526
Unit Name : CD Core Unit
(S10.5COMP2-iPod)

MISCELLANEOUS

IC 201	(A,36,46)	IC	PE5611B
IC 202	(A,24,30)	IC	S-93C66BD0I-J8
IC 205	(B,25,47)	IC	341S2094
IC 301	(A,29,15)	IC	BA5839FP
Q 101	(B,58,70)	Transistor	2SA1577
Q 102	(B,49,58)	Chip Transistor	2SB1689
Q 201	(B,27,54)	Transistor	2SA1577
X 201	(A,23,38)	Ceramic Resonator 16.934 MHz	CSS1603
X 204	(B,17,45)	Oscillator 32.768 kHz	CSS1735
X 205	(B,34,63)	Oscillator 48.000 MHz	CSS1753
S 901	(A,55,37)	Switch(HOME)	CSN1067
S 903	(B,20,59)	Switch(DSCSNS)	CSN1067
S 904	(B,41,68)	Switch(12EJ)	CSN1068
S 905	(B,25,70)	Switch(8EJ)	CSN1068

RESISTORS

R 101	(B,61,74)	RS1/10SR2R4J
R 102	(B,61,72)	RS1/10SR2R4J
R 103	(B,61,71)	RS1/10SR2R7J
R 104	(B,54,67)	RS1/16SS222J
R 105	(B,45,58)	RS1/16SS102J
R 107	(B,52,60)	RS1/16SS105J
R 201	(A,20,33)	RS1/16S472J
R 202	(A,27,33)	RS1/16SS473J
R 203	(A,51,44)	RS1/16S473J
R 204	(A,24,58)	RS1/16SS221J
R 206	(B,10,27)	RS1/16SS104J
R 210	(B,10,23)	RS1/16SS102J
R 214	(B,50,50)	RS1/16SS472J
R 216	(B,49,49)	RS1/16SS472J
R 221	(A,51,48)	RS1/16SS103J
R 222	(A,51,46)	RS1/16SS103J
R 223	(B,14,43)	RS1/16SS473J
R 225	(A,51,50)	RS1/16SS103J
R 226	(A,51,51)	RS1/16SS393J
R 227	(B,48,52)	RS1/16SS562J
R 228	(B,45,52)	RS1/16SS122J
R 229	(B,47,54)	RS1/16SS472J
R 230	(B,22,25)	RS1/16SS0R0J
R 232	(B,46,52)	RS1/16SS122J
R 233	(B,26,59)	RS1/16SS103J
R 234	(B,23,26)	RS1/16SS473J
R 235	(A,26,59)	RS1/16SS473J
R 237	(A,24,35)	RS1/16SS151J

Circuit Symbol and No.		Part No.
R 240	(B,14,26)	RS1/16S473J
R 241	(B,14,25)	RS1/16SS103J
R 243	(A,22,25)	RS1/16S0R0J
R 244	(B,22,55)	RS1/16SS473J
R 250	(B,25,52)	RS1/16SS101J
R 251	(B,22,51)	RS1/16SS101J
R 252	(B,21,48)	RS1/16SS101J
R 254	(A,26,64)	RS1/16SS104J
R 255	(A,26,63)	RS1/16SS104J
R 256	(A,26,62)	RS1/16SS104J
R 259	(A,28,66)	RS1/16SS0R0J
R 261	(A,26,65)	RS1/16SS104J
R 262	(A,30,60)	RS1/16SS0R0J
R 263	(A,28,63)	RS1/16SS0R0J
R 273	(B,19,48)	RS1/16SS103J
R 274	(B,18,51)	RS1/16SS104J
R 275	(B,19,51)	RS1/16SS104J
R 276	(B,20,51)	RS1/16SS104J
R 277	(B,24,52)	RS1/16SS103J
R 278	(B,27,51)	RS1/16SS1003D
R 279	(B,23,52)	RS1/16SS104J
R 282	(A,30,61)	RS1/16SS240J
R 283	(A,29,61)	RS1/16SS240J
R 284	(B,30,63)	RS1/16SS153J
R 285	(B,28,63)	RS1/16SS153J
R 289	(B,19,45)	RS1/16SS0R0J
R 291	(B,43,62)	RS1/16SS272J
R 292	(B,25,43)	RS1/16SS221J
R 293	(B,27,52)	RS1/16SS472J
R 294	(A,32,63)	RS1/16SS471J
R 295	(B,55,64)	RS1/16SS103J
R 307	(A,35,19)	RS1/16SS183J
R 308	(A,38,19)	RS1/16SS183J
R 309	(A,35,21)	RS1/16SS183J
R 310	(A,38,22)	RS1/16SS183J
R 601	(B,30,31)	RS1/16SS0R0J
R 602	(B,27,31)	RS1/16SS0R0J
R 606	(B,28,23)	RS1/16S0R0J
R 701	(B,12,37)	RS1/16SS221J
R 702	(A,24,56)	RS1/16SS221J
R 708	(B,15,37)	RS1/16S0R0J
R 712	(B,15,54)	RS1/16SS0R0J
R 713	(B,15,53)	RS1/16SS0R0J

CAPACITORS

C 106	(B,57,67)	CKSQYB475K6R3
C 201	(A,27,30)	CKSRYB104K16
C 202	(A,28,57)	CKSSYB104K10
C 204	(A,24,59)	CKSSYB103K16
C 205	(B,27,41)	CKSQYB475K6R3
C 206	(A,23,41)	CKSSYB104K10
C 207	(A,25,38)	CKSRYB104K16
C 209	(B,36,35)	CEVW220M6R3
C 210	(B,29,37)	CKSSYB104K10
C 211	(A,28,35)	CKSSYB104K10
C 212	(A,29,30)	CKSRYB104K16
C 213	(A,46,39)	CKSSYB104K10
C 214	(A,29,34)	CKSSYB104K10
C 216	(A,51,52)	CKSSYB332K50
C 217	(A,48,52)	CKSSYB104K10
C 218	(A,50,52)	CKSSYB473K10
C 219	(A,47,54)	CKSSYB104K10
C 220	(A,48,54)	CKSSYB182K50
C 221	(A,46,54)	CKSSYB104K10
C 222	(B,46,54)	CCSSCH560J50
C 223	(B,48,54)	CCSSCH4R0C50
C 224	(A,45,56)	CKSSYB104K10
C 226	(A,42,59)	CCSSCH680J50
C 227	(A,42,61)	CCSSCH470J50
C 228	(B,41,62)	CKSSYB103K16
C 229	(B,48,60)	CKSSYB104K10
C 236	(A,50,58)	CKSSYB104K10
C 239	(B,47,52)	CCSSCH220J50
C 240	(A,38,61)	CKSSYB104K10
C 243	(B,22,41)	CKSQYB475K6R3
C 250	(A,52,48)	CKSSYB102K50
C 251	(A,52,46)	CKSSYB102K50
C 260	(A,28,61)	CKSSYB104K10
C 261	(B,34,67)	CCSSCH8R0D50
C 262	(B,32,66)	CCSSCH8R0D50
C 290	(B,22,43)	CKSSYB104K10
C 291	(B,17,42)	CCSSCH5R0C50
C 292	(B,17,48)	CCSSCH5R0C50
C 293	(B,44,61)	CKSSYB102K50
C 294	(B,25,41)	CKSSYB103K16
C 295	(B,56,61)	CKSQYB106K6R3
C 296	(B,56,63)	CKSQYB106K6R3
C 303	(A,36,19)	CKSSYB472K25
C 304	(A,36,21)	CKSSYB223K16
C 307	(A,22,11)	CKSRYB104K16
C 308	(B,11,18)	CKSRYB105K10
C 703	(B,15,35)	CCSSCH101J50
C 704	(B,12,36)	CKSSYB102K50
C 711	(A,31,25)	CKSSYB104K10

D

Unit Number : CWS1389
Unit Name : Switch Unit

MISCELLANEOUS

S 1	(A,6,14) Switch(OPEN)	CSN1051
S 2	(A,32,12) Spring Switch(CLOSE)	CSN1052

Miscellaneous Parts List

	Pickup Unit(P10.5)(Service)	CXX1942
M 1	Motor Unit(SPINDLE)	CXC7134
M 2	Motor Unit(LOADING/CARRIAGE)	CXC4026
	Motor Unit(FLAP)	XXA7400